

Appl. No. 09/894,351  
Amtd. Dated July 21, 2004  
Reply to Office action of April 21, 2004  
Replacement Sheet



FIG. 1

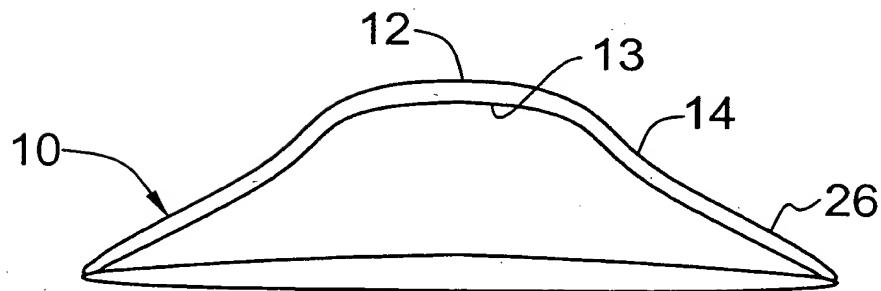
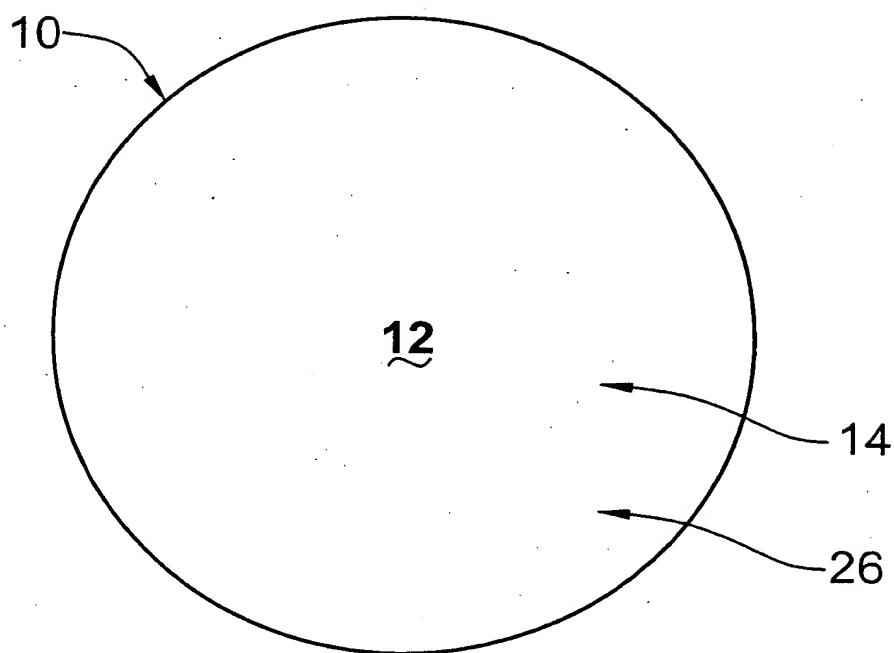


FIG. 2



Appl. No. 09/894,351  
Amdt. Dated July 21, 2004  
Reply to Office action of April 21, 2004  
Replacement Sheet

FIG. 3

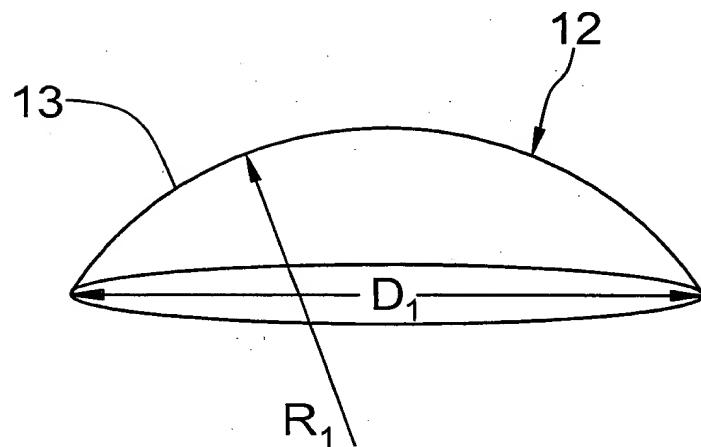


FIG. 5A

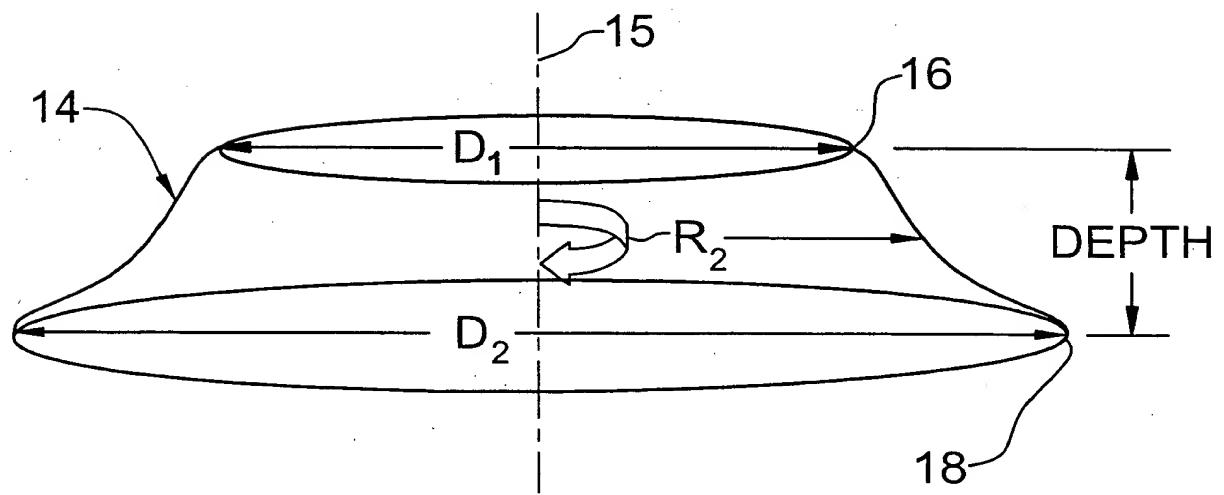




FIG. 4A

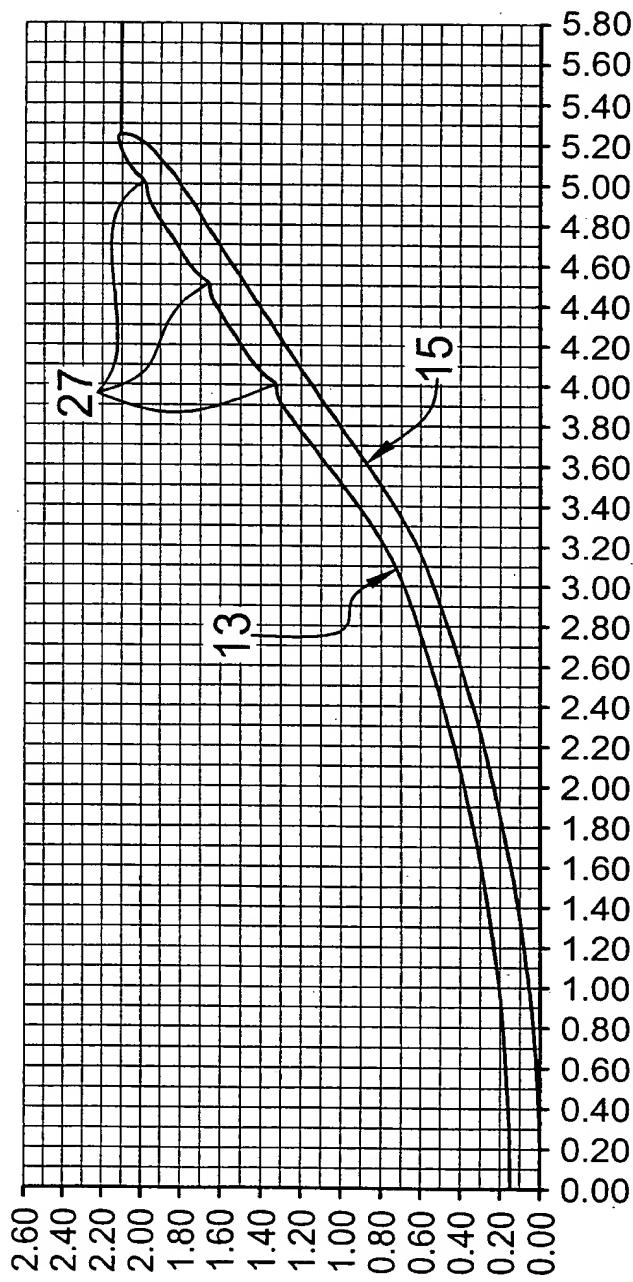
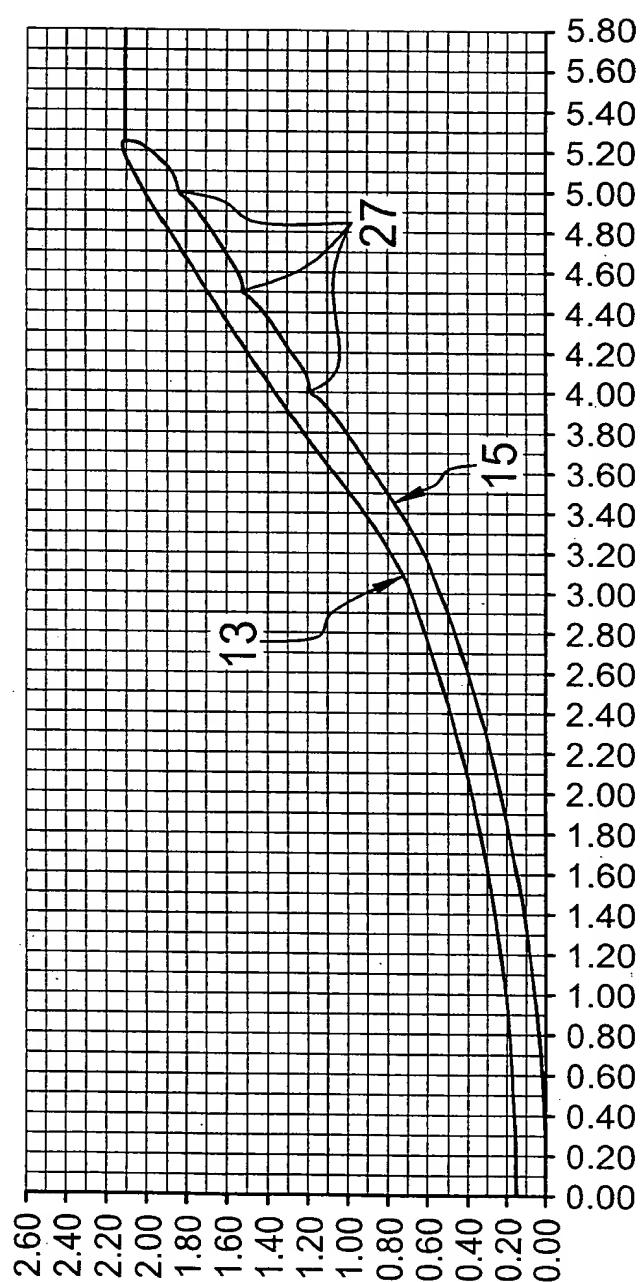


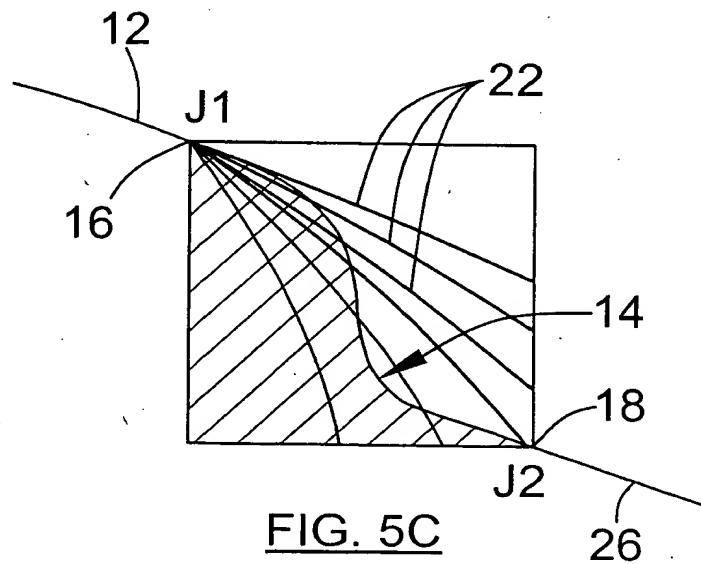
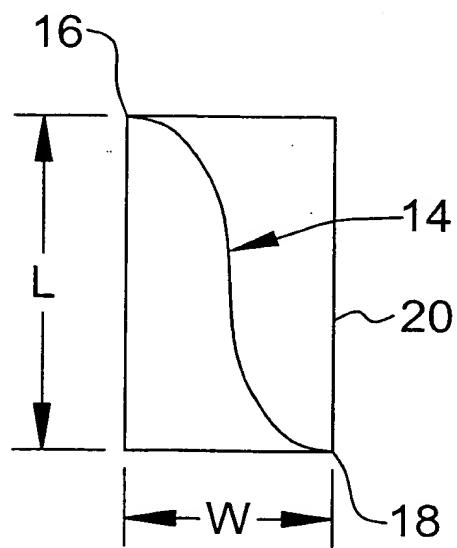
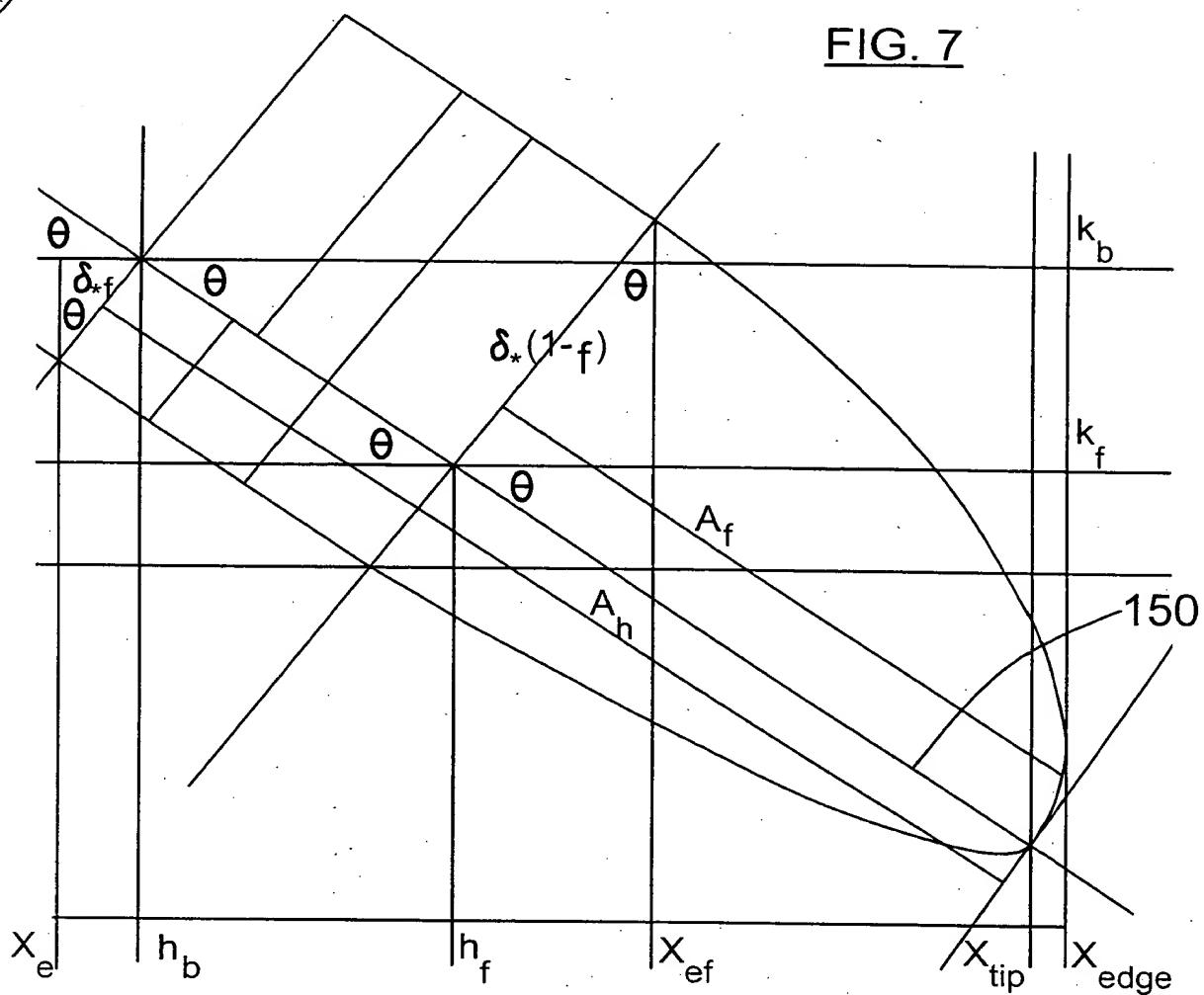
FIG. 4B





Appl. No. 09/894,351  
Amdt. Dated July 21, 2004  
Reply to Office action of April 21, 2004  
Replacement Sheet

FIG. 7





Appl. No. 09/894,351  
Amtd. Dated July 21, 2004  
Reply to Office action of April 21, 2004  
Replacement Sheet

FIG. 6

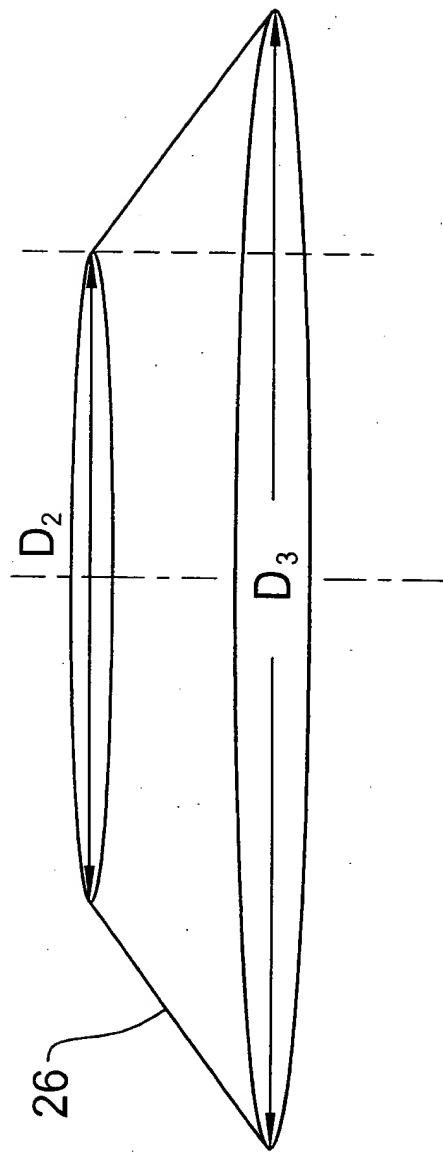


FIG. 8C

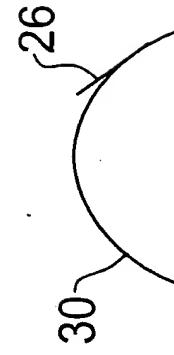


FIG. 8B

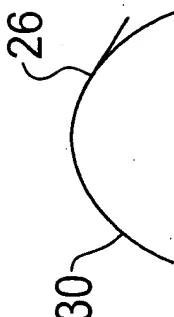
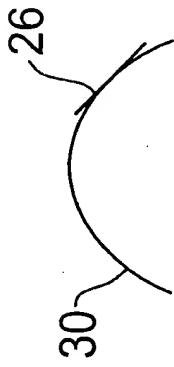


FIG. 8A



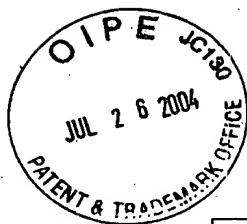


FIG. 9A

BC	selected bc (6.9-10.4/0.1) x <u>208</u> (7.70-9.1/.05)	8.40	Suggested Base Curve is 8.4	
J1	Radial distance (OZ/2) from the lens center to 1st junction mm (1.0-5.9/0.1)	<u>210</u> 3.00	1	corneal apical radius (mm)
SW	Width of the S curve mm (.75,1)	1.00	EYE	7.58
MAT	<u>212</u> Lens material (FP30, FP60, FP92, FP151, HDS, Other)	HDS	Ref. Index of material used = 1.449 If 'other' was selected input R1 in Cell H4	Volume between BC and cornea (uL) = 0.994
P	lens power desired (-1.00, -0.50, 0.00, 0.50, 0.75, 1.0, 1.25, 1.5, 2.0, 2.5)	<u>214</u> 0.50	Front Surface central radius = 8.37	Volume between S curve and cornea (uL) = 1.739
Δ1	Delta R (mm) translation of 1st junction radially from BC origin (0.08-0.2/0.02)	<u>222</u> 0.14	True center thickness (mm) = 0.152 <u>224</u>	Volume between pretouch Landing Zone and cornea (uL) = 0.718
Δ2	Delta R (mm) translation of 2nd junction radially from BC origin (0.1-0.22/0.02)	0.18	True offset between landing zones at J2 = 0.179	TOTAL VOLUME = 3.451(uL)
A	Angle of the landing zone (-25.5 to -50.0/.5)	<u>216</u> -35.00	Present lens height (mm) above cornea at diameter of tangential touch = 0.040	Diameter where LZ would make tangential touch = 9.08
D	selected lens diameter mm (8.0-12.9/0.1)	<u>209</u> 10.50	Diameter <u>206</u> recommended from HVID = 10.6	Dia giving desired LZ lift = 10.42
SD	Selected depth of the S curve mm (.15-1.0/.05) x (0.3-0.65/.025) use next smaller than est.	0.500	Recommended depth (mm) S curve for desired correction @6u/D = 0.510 mm	Edge lift at selected diameter = 0.094



Appl. No. 09/894,351  
Amtd. Dated July 21, 2004  
Reply to Office action of April 21, 2004  
Replacement Sheet

FIG. 9B

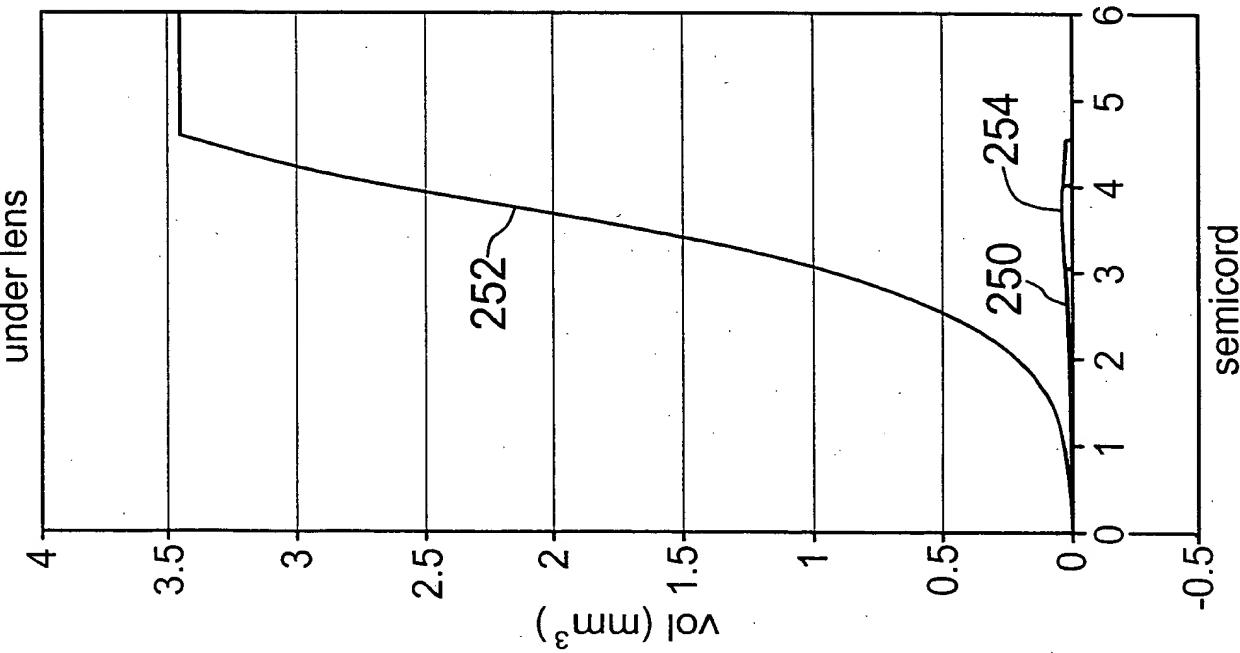
BC	200	202	204
J1	lens / cornea power (D) difference wanted	ellipticity of the cornea	HVID (mm)
SW	-4.50	0.5	11.6
MAT	Actual power (D) difference between bc and apical cornea = -4.35	Desired edge lift (mm) when landed at full Diameter = 0.083	1.45
P	Recommended diameter for lentic = 8.024	Ab, the long axis of the ellipse creating the base curve edge (below)	FOR SPHERICAL FRONTS target edge thickness (below)
Δ1	Recommended radius of curve for lentic = 8.106	0.40	0.18
Δ2	Origin for lentic curve is on y axis displaced from apex of front curve = 8.068	Af, the long axis of the ellipse creating the front curve edge (below)	SPHERICAL FRONTS- max thickness peripheral to J1 before lentic (in mm>Delta 2) see below
A	Estimated elevation at J2 = 0.070	0.40	0.01
D	fixed (tear thickness)	base to front at which the transition from base ellipse to front ellipse is found (below)	Minimum thickness peripheral to J1 before lentic (in mm>Delta 1) see below
SD	0.006	0.25	0.01



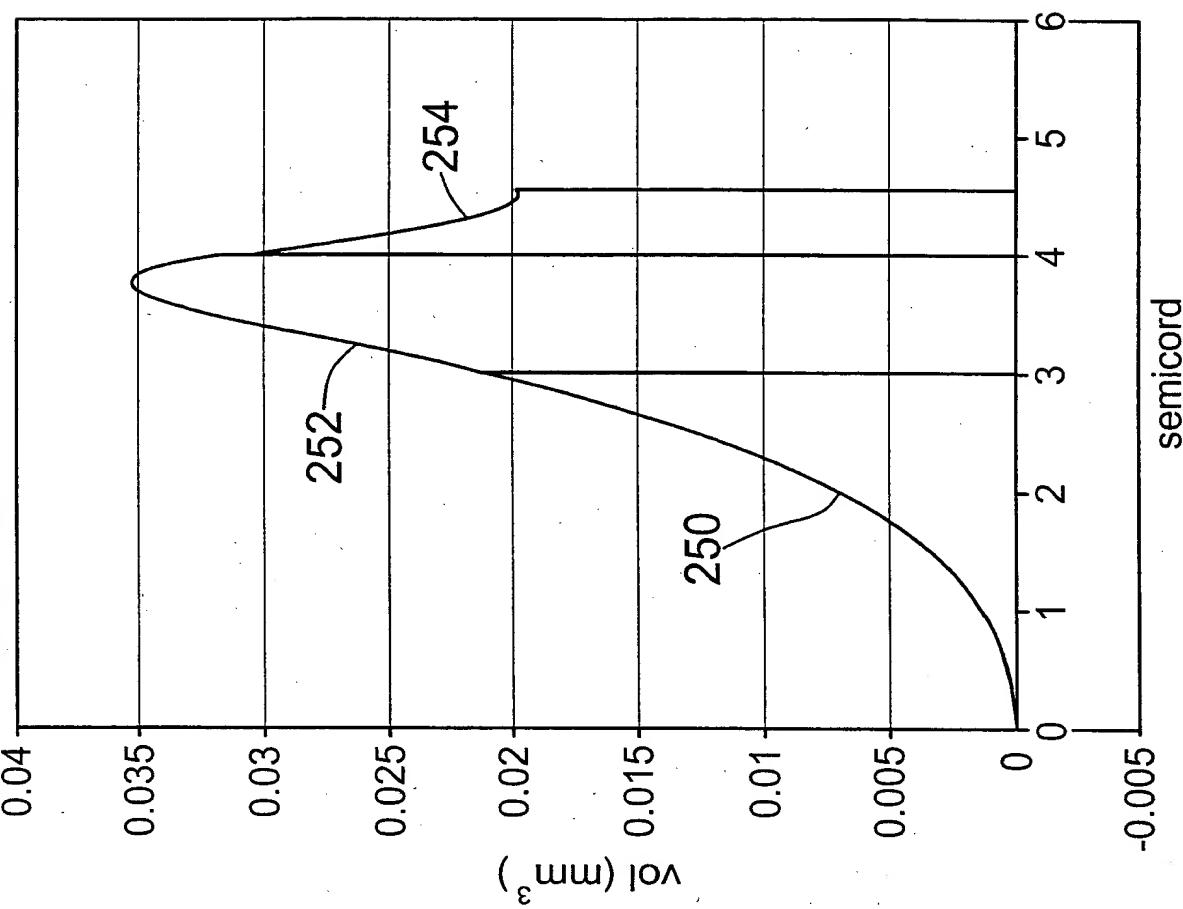
Appl. No. 09/894,351  
Amdt. Dated July 21, 2004  
Reply to Office action of April 21, 2004  
Replacement Sheet

FIG. 11

individual & cumulative volumes under lens



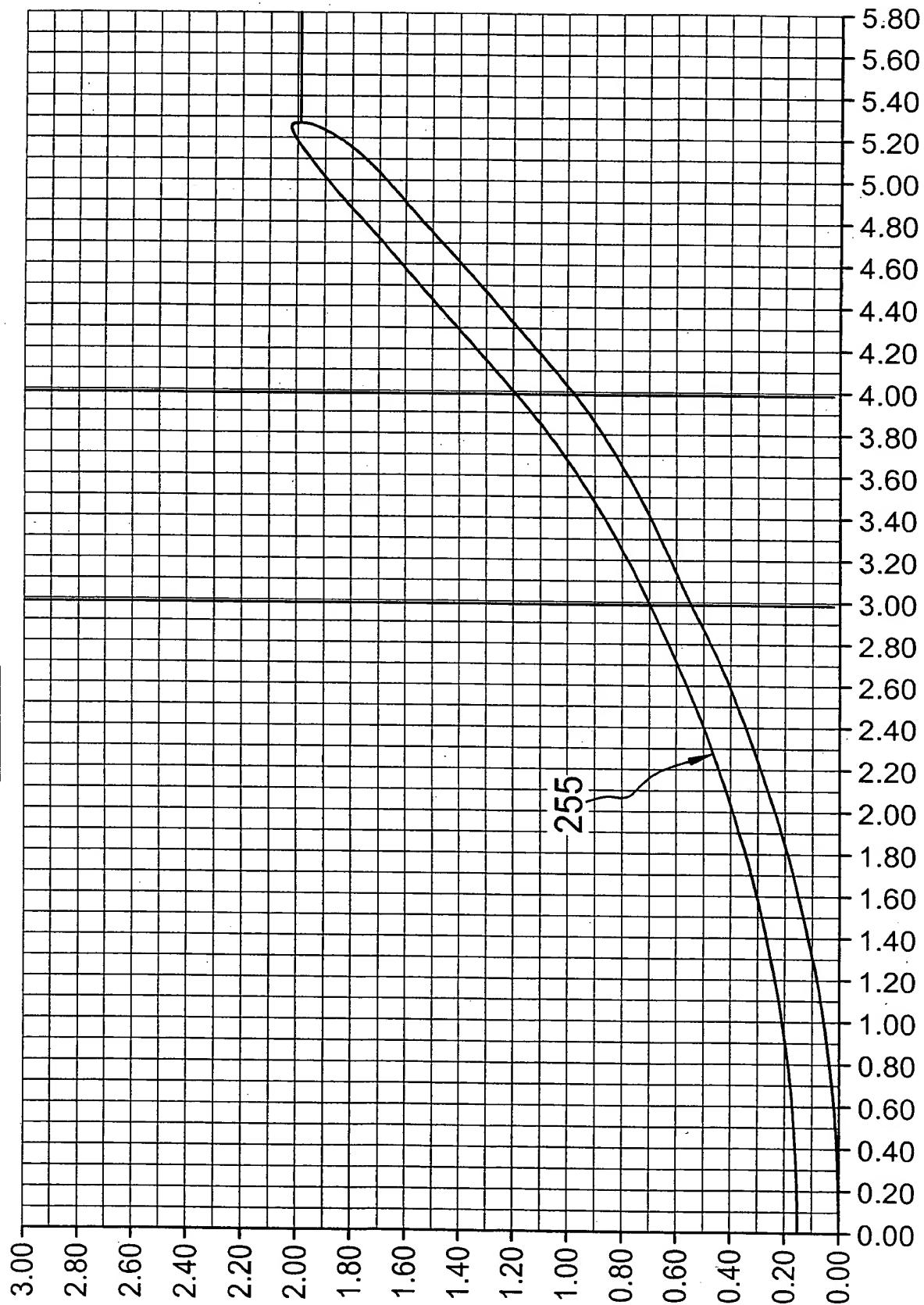
individual & cumulative volumes under lens





Appl. No. 09/894,351  
Amdt. Dated July 21, 2004  
Reply to Office action of April 21, 2004  
Replacement Sheet

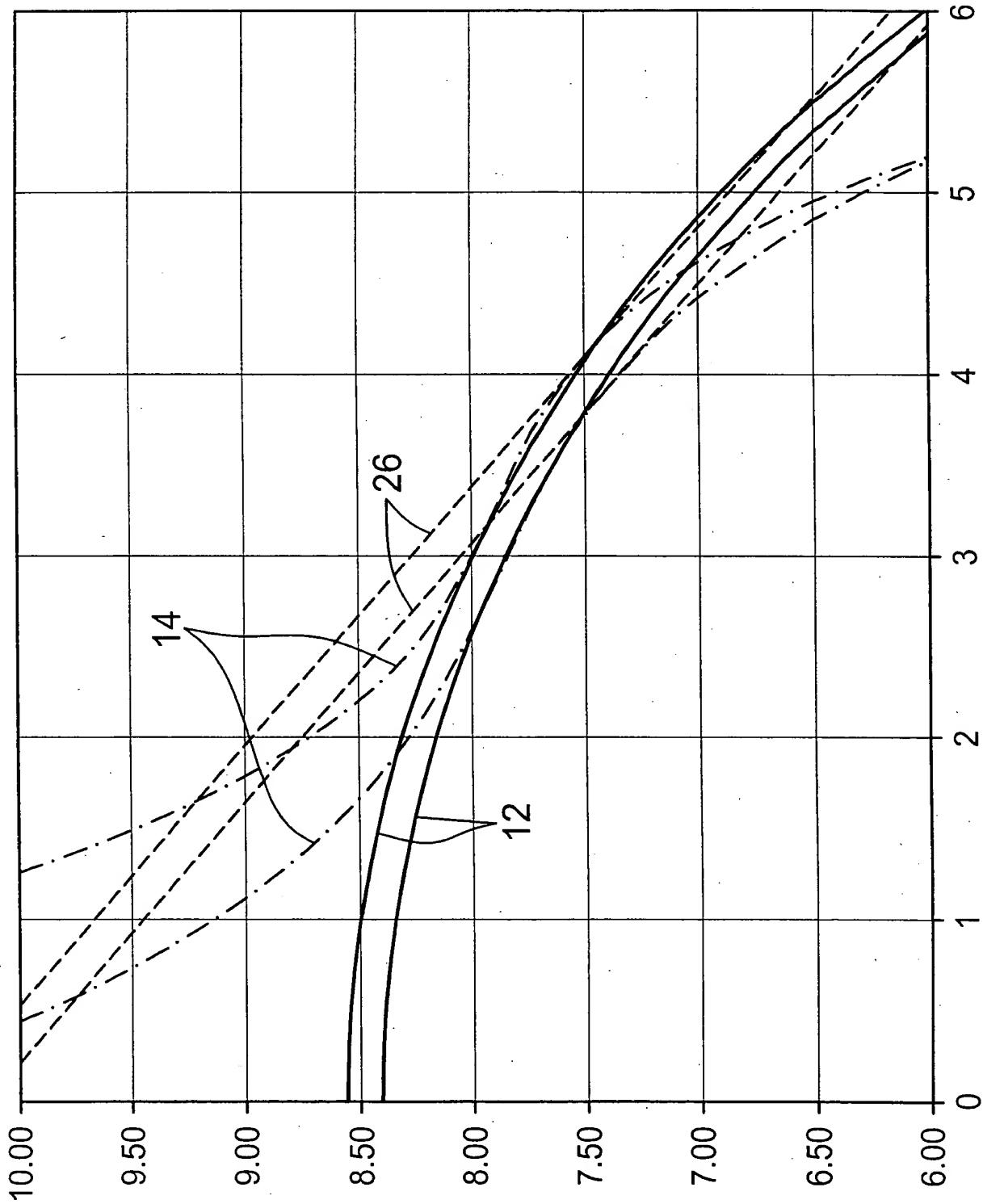
FIG. 12





Appl. No. 09/894,351  
Amdt. Dated July 21, 2004  
Reply to Office action of April 21, 2004  
Replacement Sheet

FIG. 13





Appl. No. 09/894,351  
 Amdt. Dated July 21, 2004  
 Reply to Office action of April 21, 2004  
 Replacement Sheet

FIG. 14A

BC	selected bc (6.9-10.4/0.1) x (7.70-9.1/0.05)	8.90	Suggested Base Curve is 8.9	
J1	Radial distance (OZ/2) from the lens center to 1st junction mm (1.0-5.9/0.1)	3.00	2B	corneal apical radius (mm)
SW	Width of the S curve mm (.75,1)	1.00	EYE	8.03
MAT	Lens material (FP30, FP60, FP92, FP151, HDS, Other)	HDS	Ref. Index of material used = 1.449 If 'other' was selected input R1 in Cell H4	Volume between BC and cornea (uL) = 0.926
P	lens power desired (-1.00, -0.50, 0.00, 0.50, 0.75, 1.0, 1.25, 1.5, 2.0, 2.5)	0.50	Front Surface central radius = 8.88	Volume between S curve and cornea (uL) = 1.742
Δ1	Delta R (mm) translation of 1st junction radially from BC origin (0.08-0.2/0.02)	232 0.20	True center thickness (mm) = 0.214	Volume between pretouch Landing Zone and cornea (uL) = 0.867
Δ2	Delta R (mm) translation of 2nd junction radially from BC origin (0.1-0.22/0.02)	0.12	True offset between landing zones at J2 = 0.119	TOTAL VOLUME = 3.534(uL)
A	Angle of the landing zone (-25.5 to -50.0/.5)	-33.00	Present lens height (mm) above cornea at diameter of tangential touch = 0.041	Diameter where LZ would make tangential touch = 9.26
D	selected lens diameter mm (8.0-12.9/0.1)	10.40	Diameter recommended from HVID = 10.4	Dia giving desired LZ lift = 10.68
SD	Selected depth of the S curve mm .15-1.0/.05) x (0.3-0.65/.025) use next smaller than est.	0.450	Recommended depth (mm) S curve for desired correction @6u/D = 0.457 mm	Edge lift at selected diameter = 0.071



Appl. No. 09/894,351  
Amdt. Dated July 21, 2004  
Reply to Office action of April 21, 2004  
Replacement Sheet

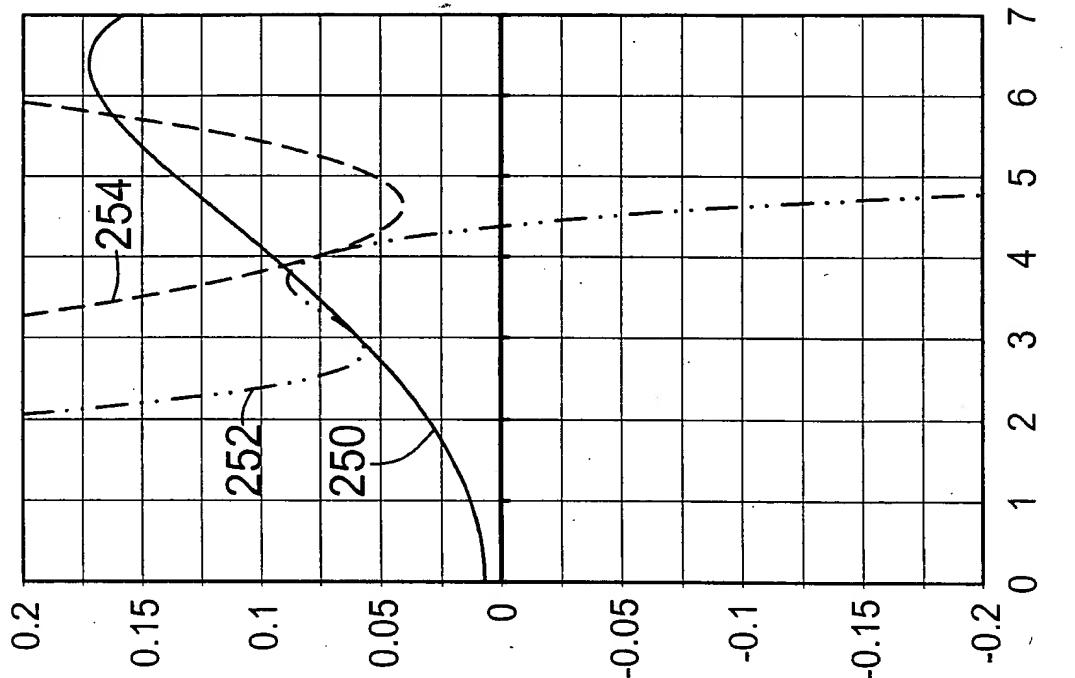
FIG. 14B

230

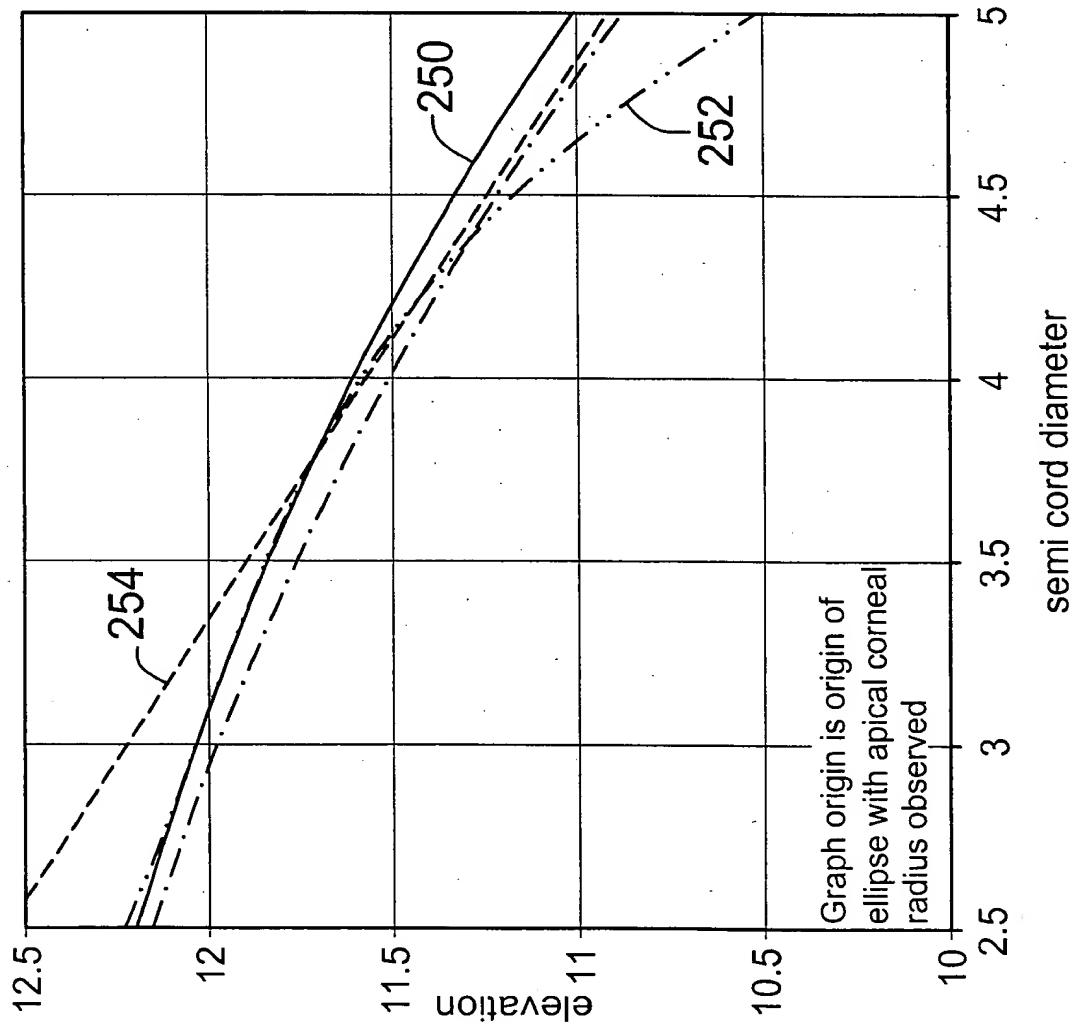
BC			
J1	lens / cornea power (D) difference wanted	ellipticity of the cornea	HVID (mm)
SW	-4.00	0.6	11.4
MAT	Actual power (D) difference between bc and apical cornea = -4.11	Desired edge lift (mm) when landed at full Diameter = 0.08	1.45
P	Recommended diameter for lentic = 6.006	Ab, the long axis of the ellipse creating the base curve edge (below)	FOR SPHERICAL FRONTS target edge thickness (below)
$\Delta 1$	Recommended radius of curve for lentic = 8.457	0.40	0.18
$\Delta 2$	Origin for lentic curve is on y axis displaced from apex of front curve = 8.430	Af, the long axis of the ellipse creating the front curve edge (below)	SPHERICAL FRONTS- max thickness peripheral to J1 before lentic (in mm>Delta 2) see below
A	Estimated elevation at J2 = 0.075	0.40	0.01
D	fixed (tear thickness)	base to front at which the transition from base ellipse to front ellipse is found (below)	Minimum thickness peripheral to J1 before lentic (in mm>Delta 1) see below
SD	0.006	0.25	0.01



Appl. No. 09/894,351  
Amdt. Dated July 21, 2004  
Reply to Office action of April 21, 2004  
Replacement Sheet



**FIG. 15**





Appl. No. 09/894,351  
Amdt. Dated July 21, 2004  
Reply to Office action of April 21, 2004  
Replacement Sheet

FIG. 16  
Individual & cumulative volumes under lens

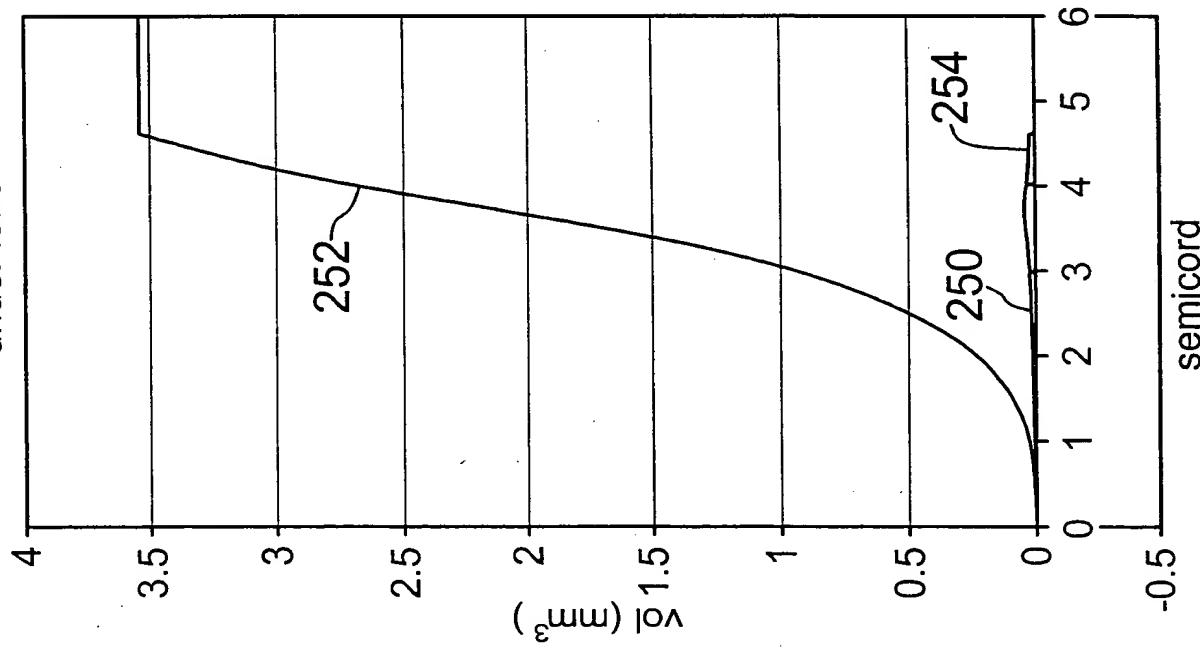
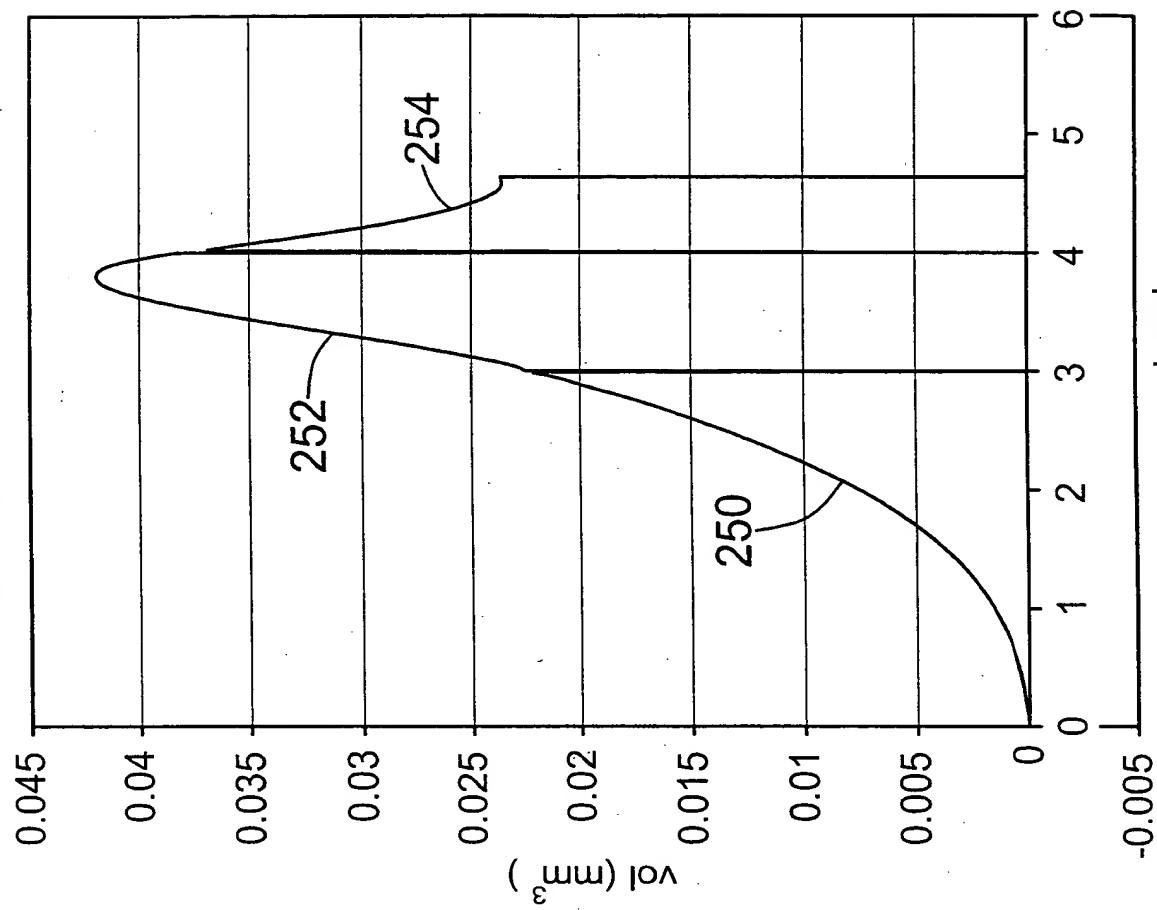


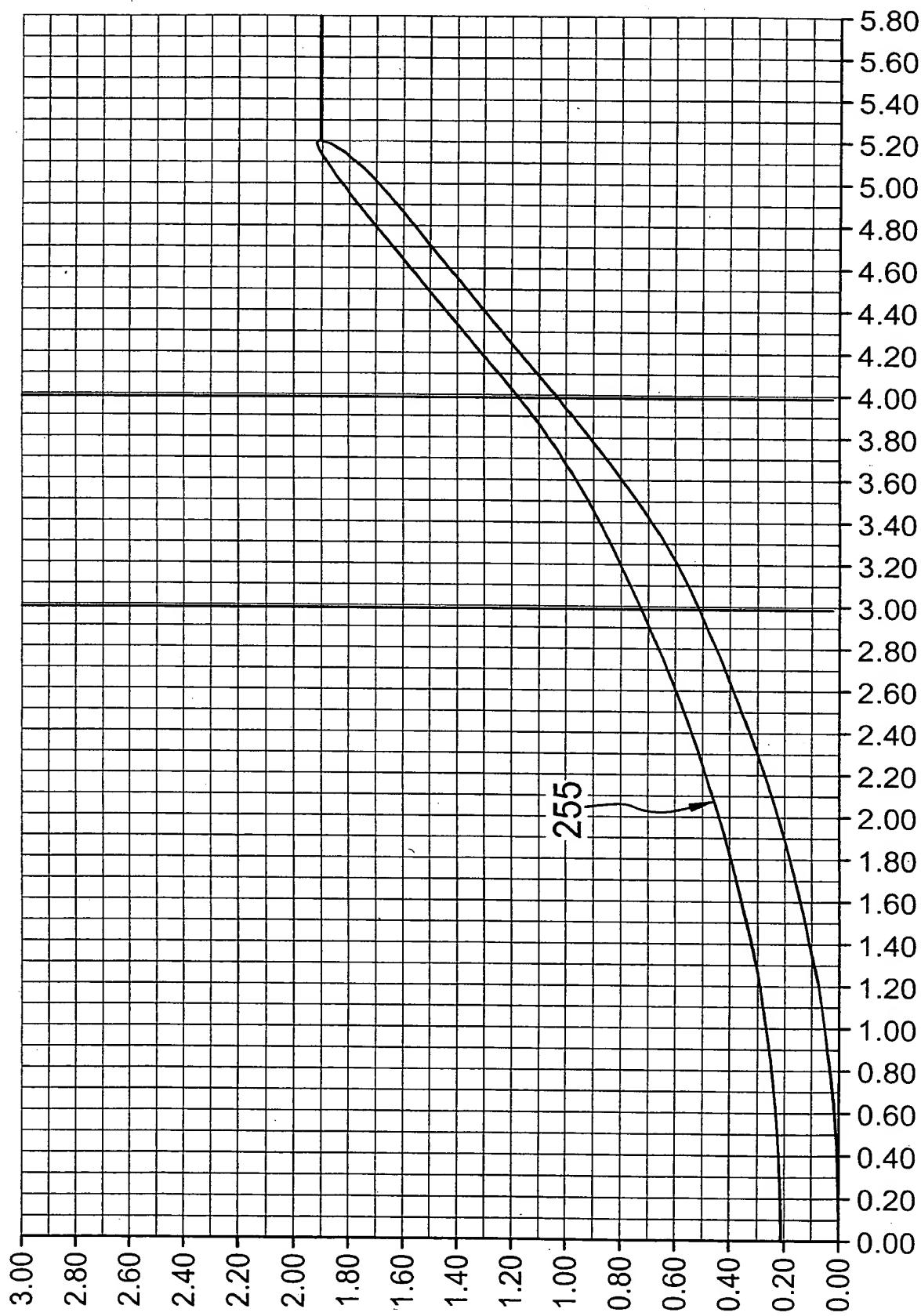
FIG. 16  
Individual & cumulative volumes under lens





Appl. No. 09/894,351  
Amtd. Dated July 21, 2004  
Reply to Office action of April 21, 2004  
Replacement Sheet

FIG. 17





Appl. No. 09/894,351  
Amdt. Dated July 21, 2004  
Reply to Office action of April 21, 2004  
Replacement Sheet

FIG. 18

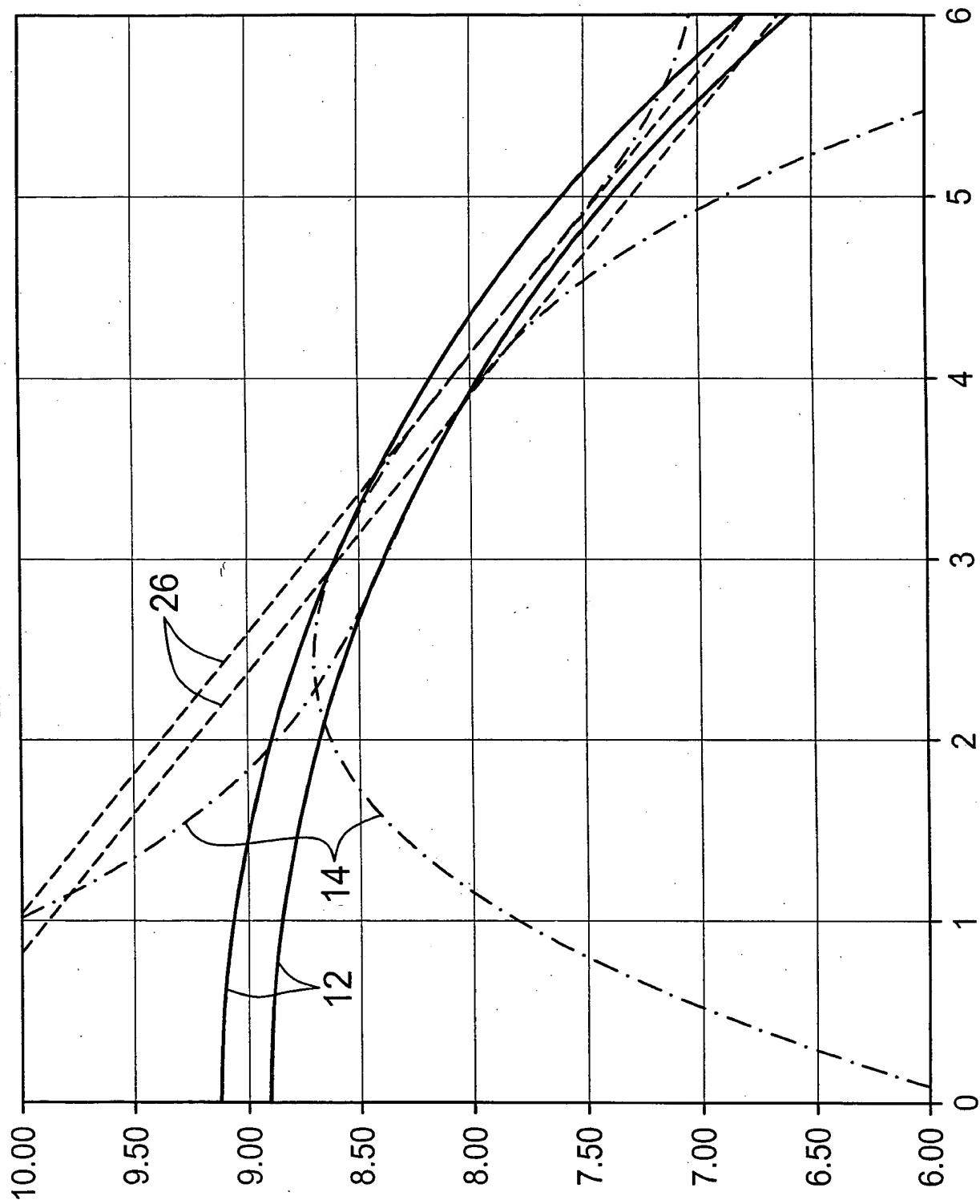




FIG. 19A

BC	selected bc (6.9-10.4/0.1) x (7.70-9.1/.05)	8.35	Suggested Base Curve is 8.3	
J1	Radial distance (OZ/2) from the lens center to 1st junction mm (1.0-5.9/0.1)	210	2.50	corneal apical radius (mm)
SW	Width of the S curve mm (.75,1)	2.00	EYE	7.25
MAT	212  Lens material (FP30, FP60, FP92, FP151, HDS, Other)	HDS	Ref. Index of material used = 1.449 If 'other' was selected input R1 in Cell H4	Volume between BC and cornea (uL) = 0.699
P	lens power desired (-1.00, -0.50, 0.00, 0.50, 0.75, 1.0, 1.25, 1.5, 2.0, 2.5)	214  0.50	Front Surface central radius = 8.32	Volume between S curve and cornea (uL) = 2.812
Δ1	Delta R (mm) translation of 1st junction radially from BC origin (0.08-0.2/0.02)	0.14	True center thickness (mm) = 0.148	Volume between pretouch Landing Zone and cornea (uL) = 0.122
Δ2	Delta R (mm) translation of 2nd junction radially from BC origin (0.1-0.22/0.02)	0.18	True offset between landing zones at J2 = 0.179	TOTAL VOLUME = 3.633(uL)
A	Angle of the landing zone (-25.5 to -50.0/.5)	-38.00	Present lens height (mm) above cornea at diameter of tangential touch = 0.038	Diameter where LZ would make tangential touch = 9.21
D	selected lens diameter mm (8.0-12.9/0.1)	10.20	Diameter recommended from HVID = 10.2	Dia giving desired LZ lift = 10.53
SD	Selected depth of the S curve mm (.15-1.0/.05) x (0.3-0.65/.025) use next smaller than est.	1.116	Recommended depth (mm) S curve for desired correction @6u/D = 1.116 mm	Edge lift at selected diameter = 0.071

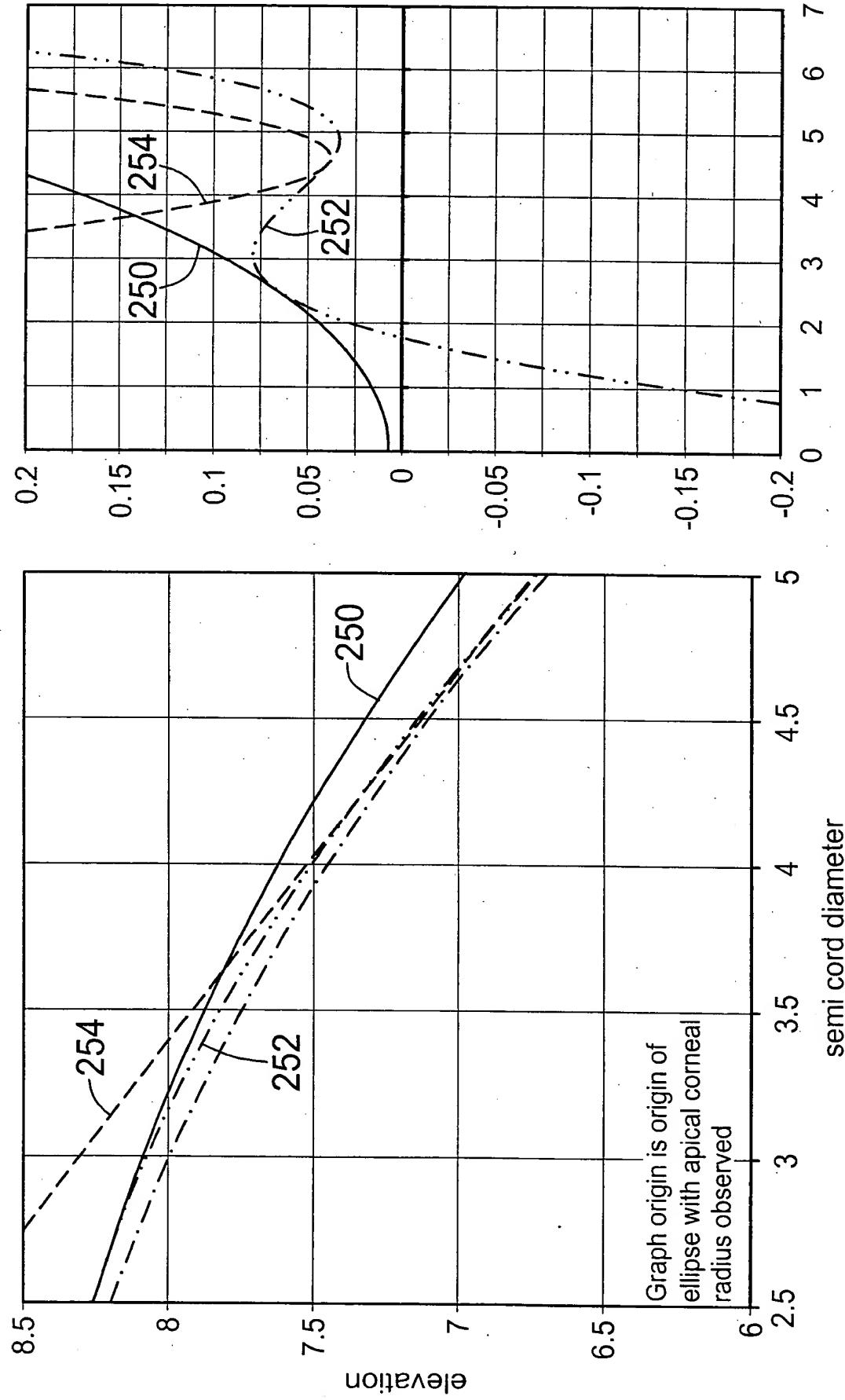


FIG. 19B

	BC	200	202	204
J1	lens / cornea power (D) difference wanted	ellipticity of the cornea	HVID (mm)	
SW	-6.12	0.4		11.2
MAT	Actual power (D) difference between bc and apical cornea = -6.13	Desired edge lift (mm) when landed at full Diameter = 0.09272		1.45
P	Recommended diameter for lentic = 6.784	Ab, the long axis of the ellipse creating the base curve edge (below)	FOR SPHERICAL FRONTS target edge thickness (below)	
Δ1	Recommended radius of curve for lentic = 7.615		0.40	0.18
Δ2	Origin for lentic curve is on y axis displaced from apex of front curve = 7.541	Af, the long axis of the ellipse creating the front curve edge (below)	SPHERICAL FRONTS- max thickness peripheral to J1 before lentic (in mm>Delta 2) see below	
A	Estimated elevation at J2 = 0.040		0.40	0.01
D	fixed (tear thickness)	base to front at which the transition from base ellipse to front ellipse is found (below)	Minimum thickness peripheral to J1 before lentic (in mm>Delta 1) see below	
SD	0.006	0.25		0.01



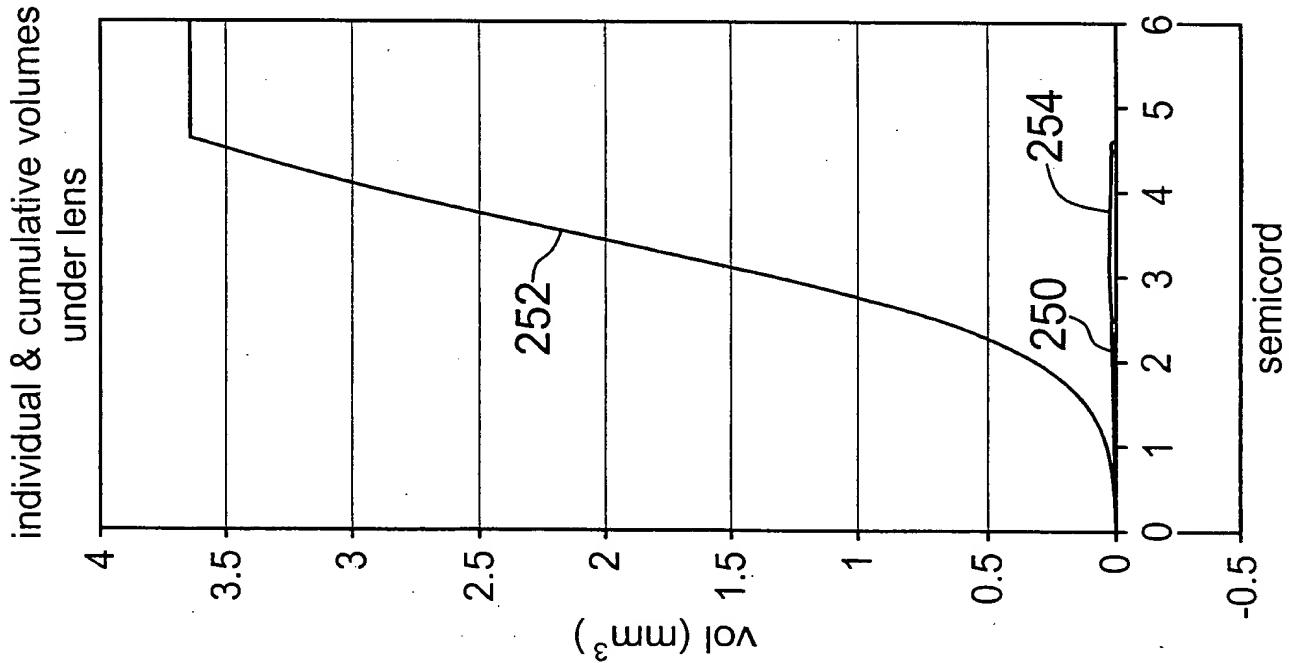
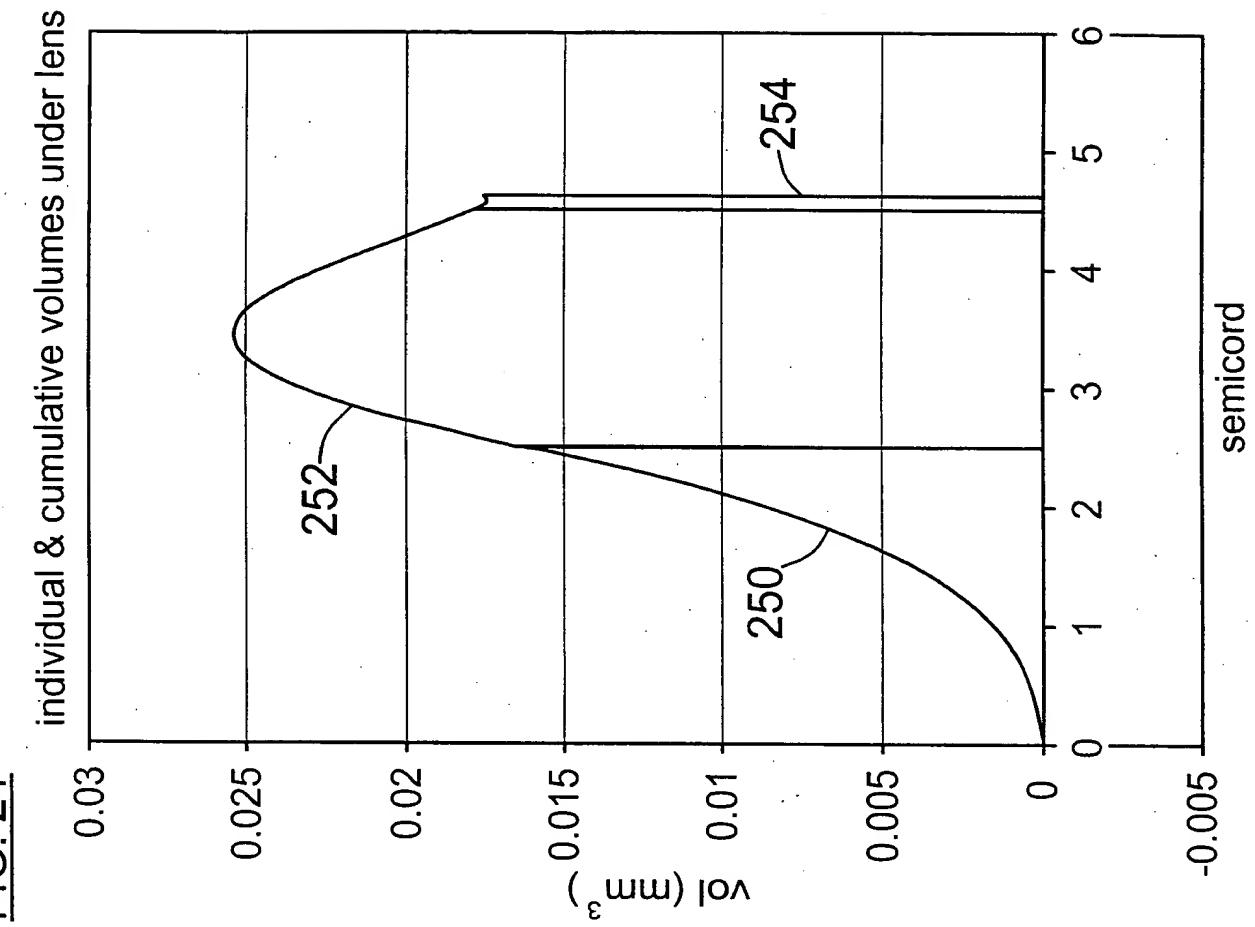
FIG. 20





Appl. No. 09/894,351  
Amdt. Dated July 21, 2004  
Reply to Office action of April 21, 2004  
Replacement Sheet

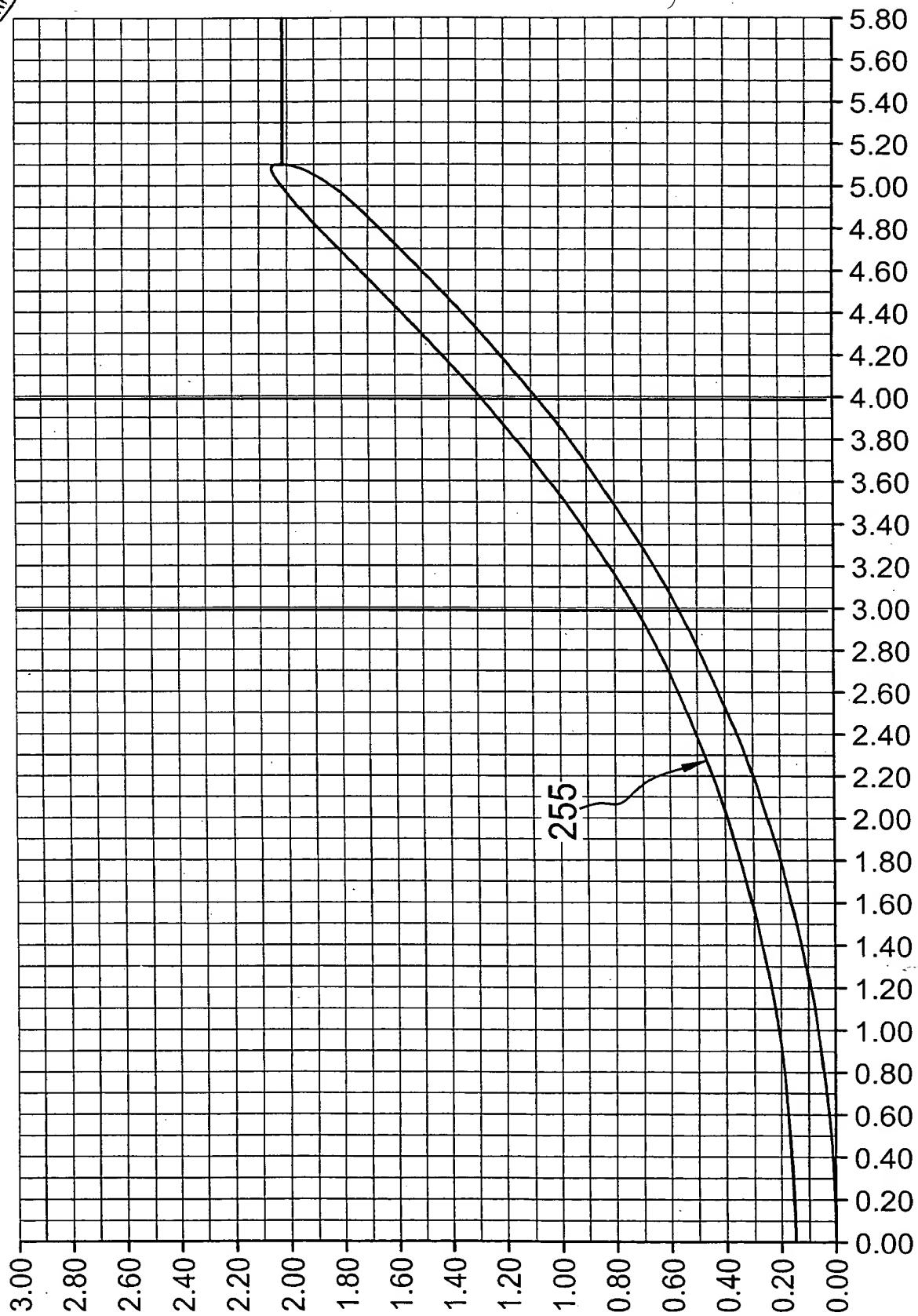
FIG. 21



Appl. No. 09/894,351  
Amdt. Dated July 21, 2004  
Reply to Office action of April 21, 2004  
Replacement Sheet



FIG. 22





Appl. No. 09/894,351  
Amdt. Dated July 21, 2004  
Reply to Office action of April 21, 2004  
Replacement Sheet

FIG. 23

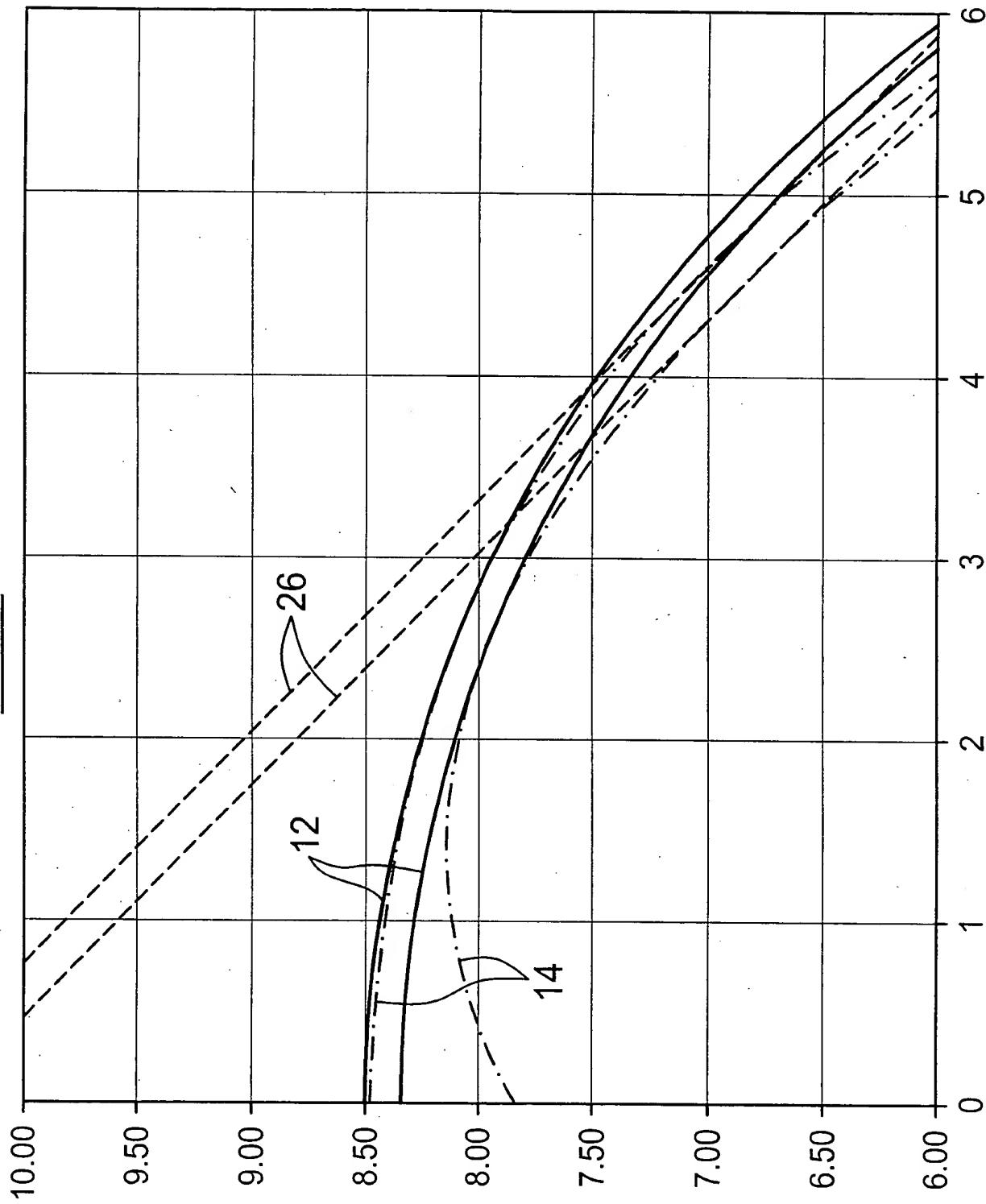




FIG. 24A

BC	selected bc (6.9-10.4/0.1) x (7.70-9.1/.05)	9.30	Suggested Base Curve is 9.3	
J1	Radial distance (OZ/2) from the lens center to 1st junction mm (1.0-5.9/0.1)	3.00	4B	corneal apical radius (mm)
SW	Width of the S curve mm (.75,1)	1.00	EYE	8.13
MAT	Lens material (FP30, FP60, FP92, FP151, HDS, Other)	HDS	Ref. Index of material used = 1.449 If 'other' was selected input R1 in Cell H4	Volume between BC and cornea (uL) = 1.213
P	lens power desired (-1.00, -0.50, 0.00, 0.50, 0.75, 1.0, 1.25, 1.5, 2.0, 2.5)	0.50	Front Surface central radius = 9.24	Volume between S curve and cornea (uL) = 2.389
$\Delta 1$	Delta R (mm) translation of 1st junction radially from BC origin (0.08-0.2/0.02)	<u>222</u> 0.08	True center thickness (mm) = 0.088	Volume between pretouch Landing Zone and cornea (uL) = 1.360
$\Delta 2$	Delta R (mm) translation of 2nd junction radially from BC origin (0.1-0.22/0.02)	<u>242</u> 0.22	True offset between landing zones at J2 = 0.217	TOTAL VOLUME = 4.963(uL)
A	Angle of the landing zone (-25.5 to -50.0/.5)	-35.00	Present lens height (mm) above cornea at diameter of tangential touch = 0.050	Diameter where LZ would make tangential touch = 9.47
D	selected lens diameter mm (8.0-12.9/0.1)	<u>209</u> 10.90	Diameter recommended from HVID = 10.9	Dia giving desired LZ lift = 10.69
SD	Selected depth of the S curve mm (.15-1.0/.05) x (0.3-0.65/.025) use next smaller than est.	0.450	Recommended depth (mm) S curve for desired correction @6u/D = 0.462 mm	Edge lift at selected diameter = 0.107



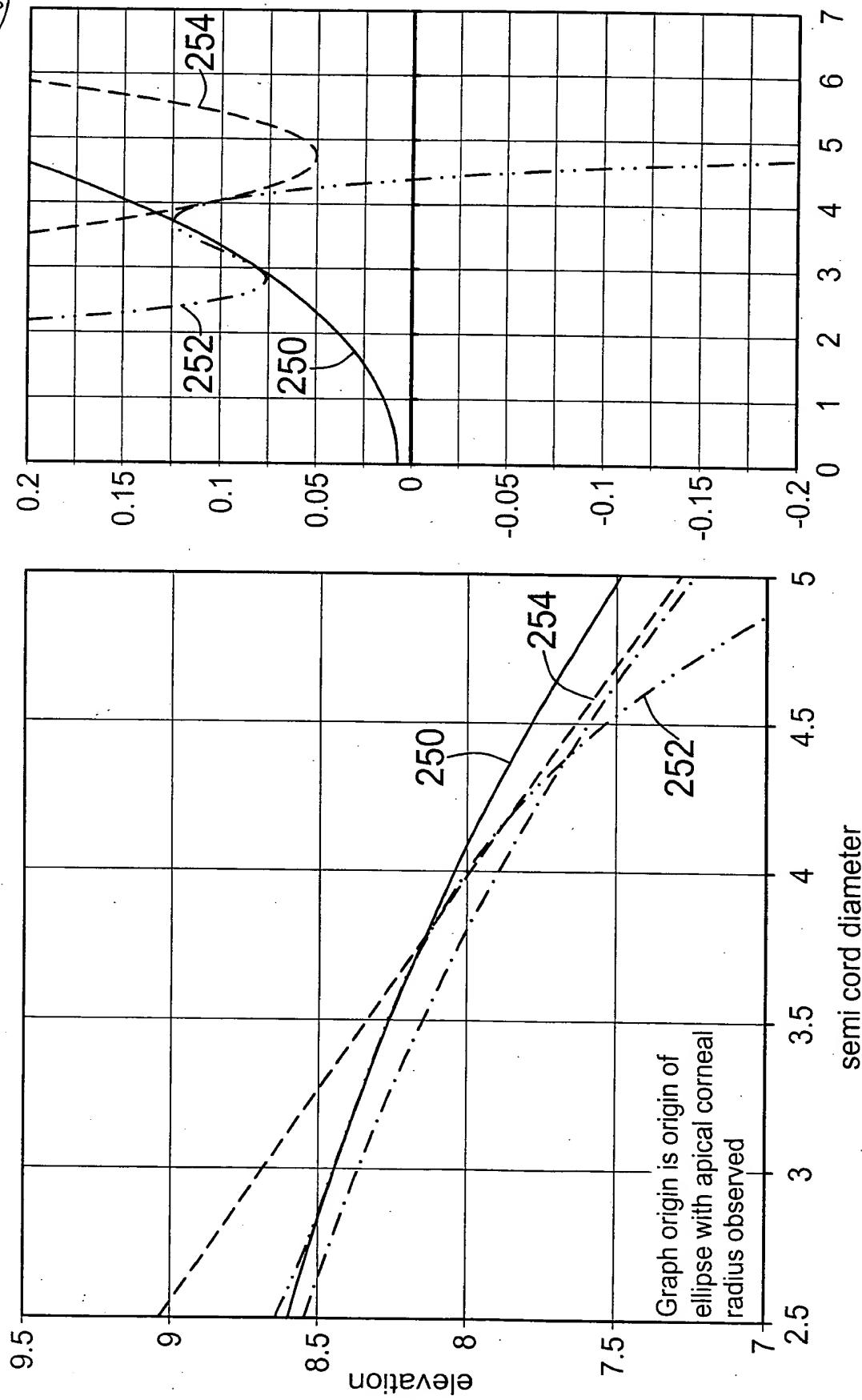
Appl. No. 09/894,351  
 Amdt. Dated July 21, 2004  
 Reply to Office action of April 21, 2004  
 Replacement Sheet

FIG. 24B

BC			
J1	lens / cornea power (D) difference wanted	ellipticity of the cornea	HVID (mm)
SW	-5.25	0.3	11.9
MAT	Actual power (D) difference between bc and apical cornea = -5.22	Desired edge lift (mm) when landed at full Diameter = 0.0875	1.45
P	Recommended diameter for lentic = 9.791	Ab, the long axis of the ellipse creating the base curve edge (below)	FOR SPHERICAL FRONTS target edge thickness (below)
Δ1	Recommended radius of curve for lentic = 10.059	243 244 2.00	0.18
Δ2	Origin for lentic curve is on y axis displaced from apex of front curve = 10.191	Af, the long axis of the ellipse creating the front curve edge (below)	SPHERICAL FRONTS- max thickness peripheral to J1 before lentic (in mm>Delta 2) see below
A	Estimated elevation at J2 = 0.106	2.00	0.01
D	fixed (tear thickness)	base to front at which the transition from base ellipse to front ellipse is found (below)	Minimum thickness peripheral to J1 before lentic (in mm>Delta 1) see below
SD	0.006	245 0.40	0.01



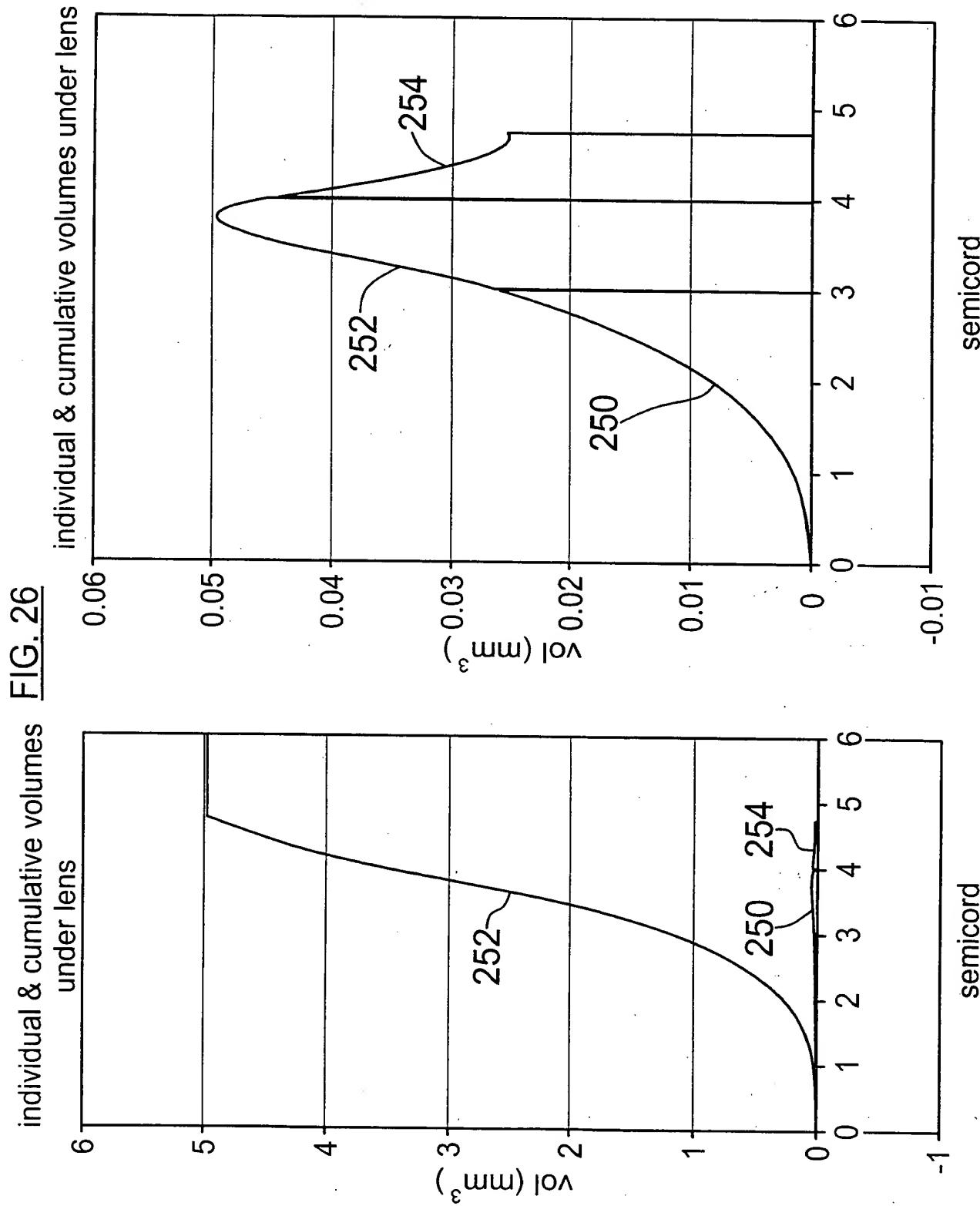
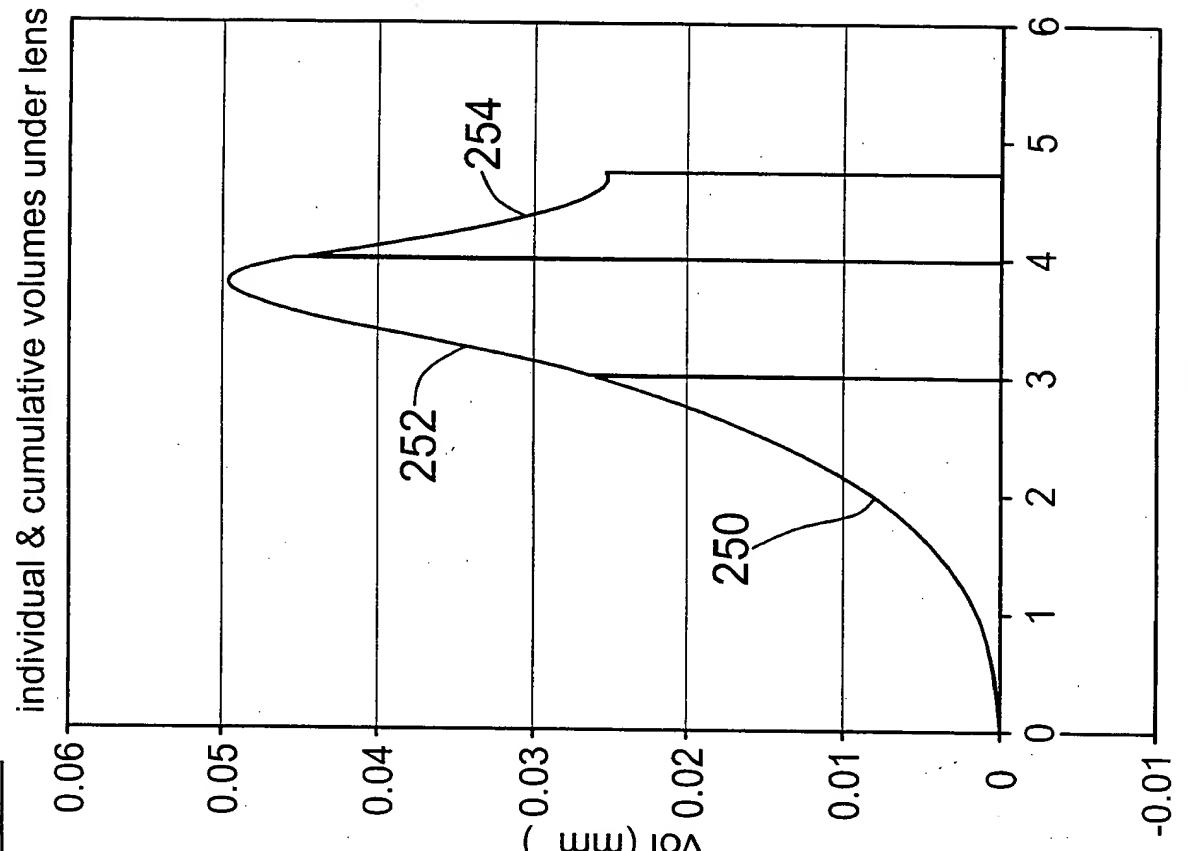
FIG. 25





Appl. No. 09/894,351  
Amdt. Dated July 21, 2004  
Reply to Office action of April 21, 2004  
Replacement Sheet

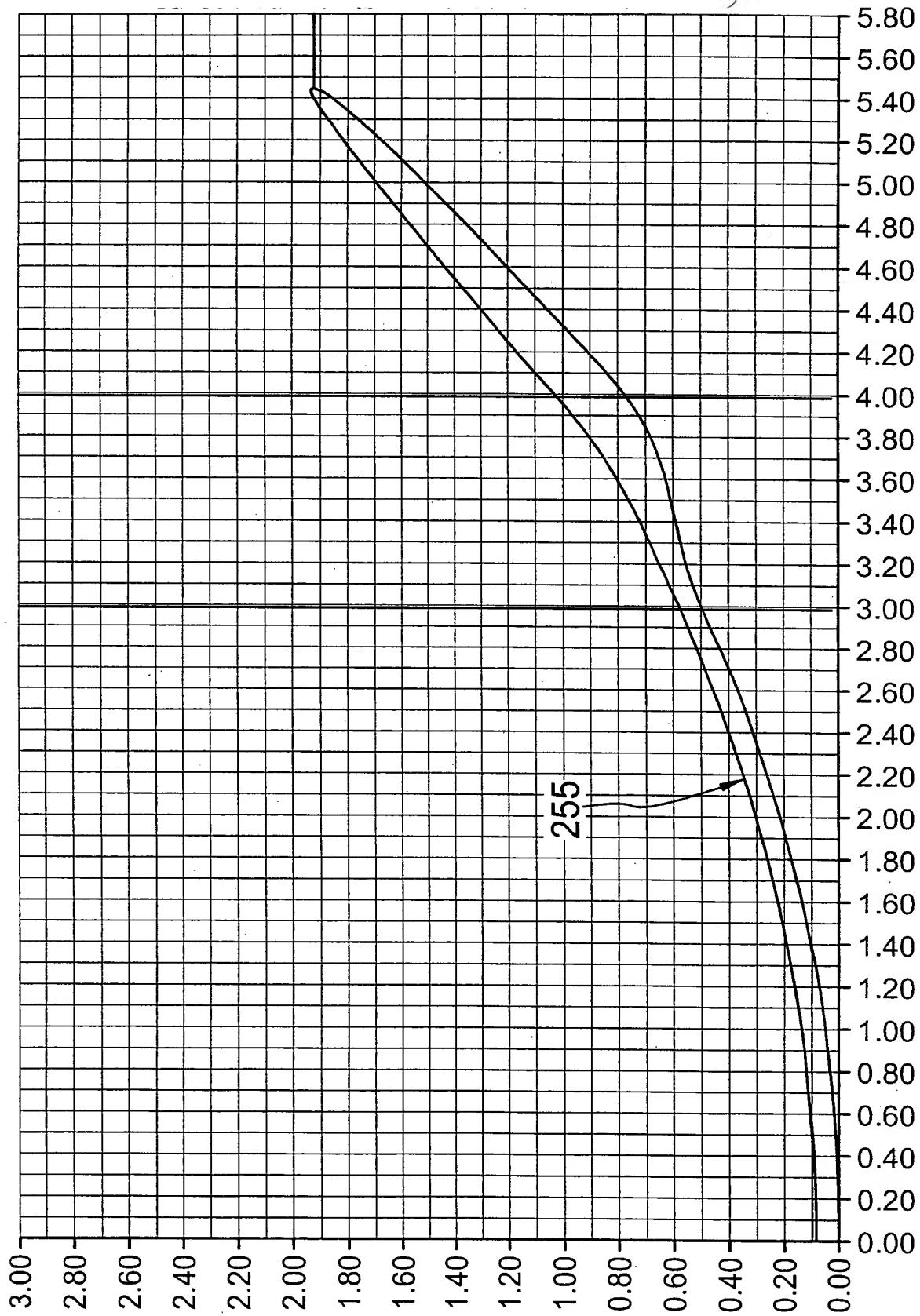
FIG. 26  
individual & cumulative volumes under lens





Appl. No. 09/894,351  
Amdt. Dated July 21, 2004  
Reply to Office action of April 21, 2004  
Replacement Sheet

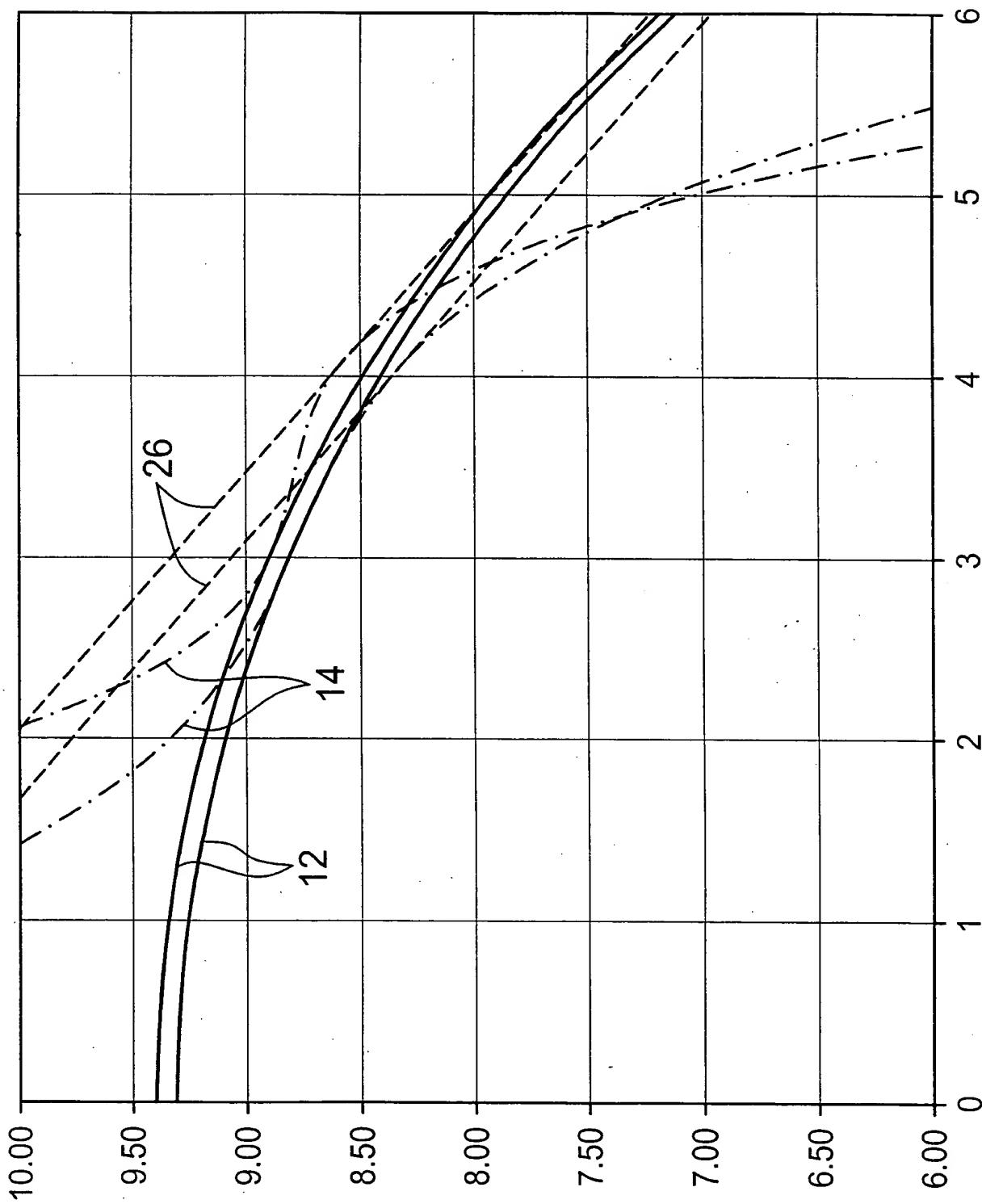
FIG. 27





Appl. No. 09/894,351  
Amdt. Dated July 21, 2004  
Reply to Office action of April 21, 2004  
Replacement Sheet

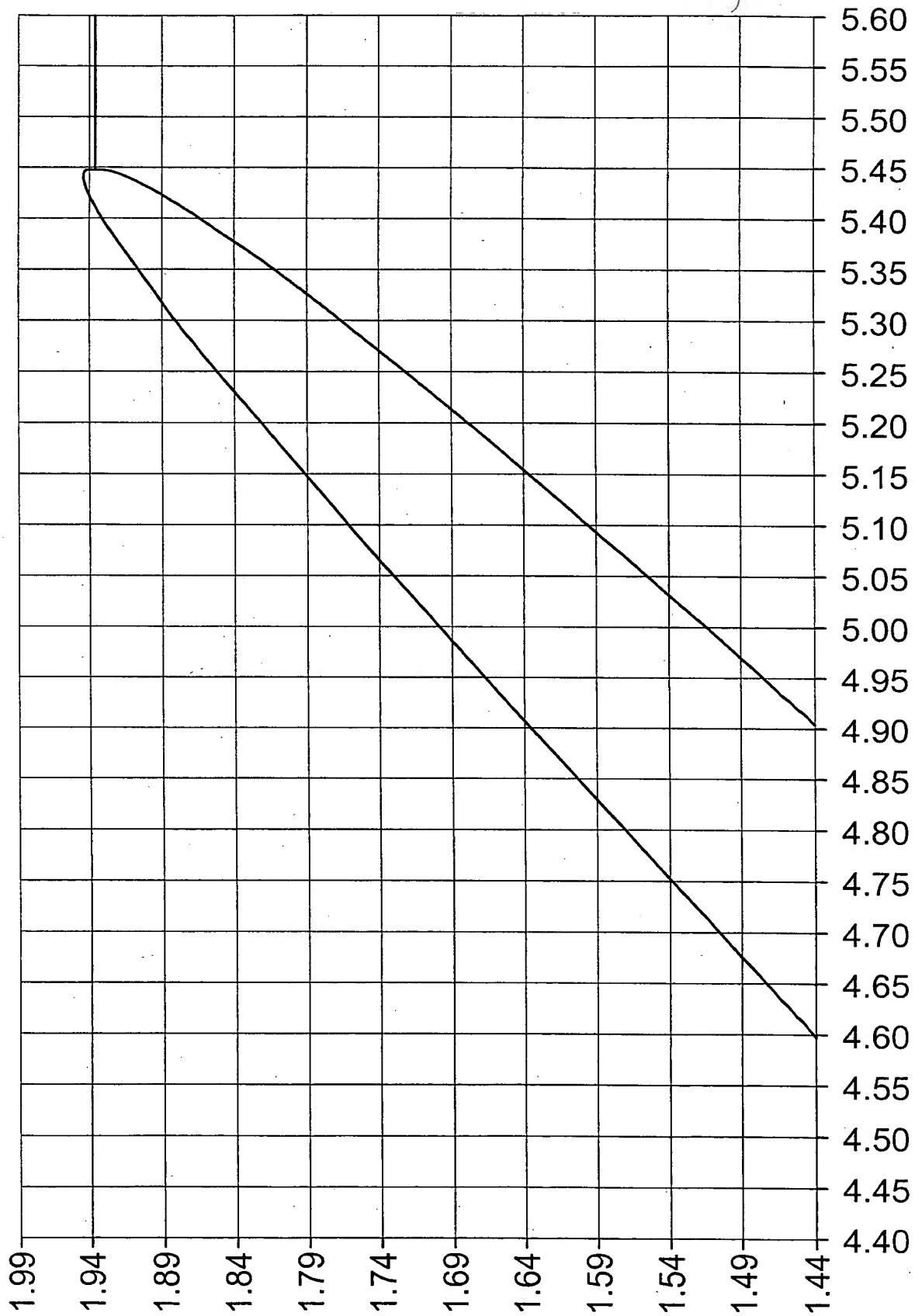
FIG. 28





Appl. No. 09/894,351  
Amdt. Dated July 21, 2004  
Reply to Office action of April 21, 2004  
Replacement Sheet

FIG. 29





Appl. No. 09/894,351  
 Amdt. Dated July 21, 2004  
 Reply to Office action of April 21, 2004  
 Replacement Sheet

BC	selected bc (6.9-10.4/0.1) x (7.70-9.1/.05)	8.40	Suggested Base Curve is 8.4	
J1	Radial distance (OZ/2) from the lens center to 1st junction mm (1.0-5.9/0.1)	3.00	5B	corneal apical radius (mm)
SW	Width of the S curve mm (.75,1)	1.00	EYE	7.75
MAT	Lens material (FP30, FP60, FP92, FP151, HDS, Other)	HDS	Ref. Index of material used = 1.449 If 'other' was selected input R1 in Cell H4	Volume between BC and cornea (uL) = 0.748
P	lens power desired (-1.00, -0.50, 0.00, 0.50, 0.75, 1.0, 1.25, 1.5, 2.0, 2.5)	0.50	Front Surface central radius = 8.36	Volume between S curve and cornea (uL) = 1.195
Δ1	Delta R (mm) translation of 1st junction radially from BC origin (0.08-0.2/0.02)	<u>222</u> 0.10	True center thickness (mm) = 0.110	Volume between pretouch Landing Zone and cornea (uL) = 0.439
Δ2	Delta R (mm) translation of 2nd junction radially from BC origin (0.1-0.22/0.02)	<u>242</u> 0.10	True offset between landing zones at J2 = 0.100	TOTAL VOLUME = 2.382(uL)
A	Angle of the landing zone (-25.5 to -50.0/.5)	-32.50	Present lens height (mm) above cornea at diameter of tangential touch = 0.027	Diameter where LZ would make tangential touch = 8.99
D	selected lens diameter mm (8.0-12.9/0.1)	10.00	Diameter recommended from HVID = 10	Dia giving desired LZ lift = 10.59
SD	Selected depth of the S curve mm (.15-1.0/.05) x (0.3-0.65/.025) use next smaller than est.	0.475	Recommended depth (mm) S curve for desired correction @6u/D = 0.478 mm	Edge lift at selected diameter = 0.048

FIG. 30A



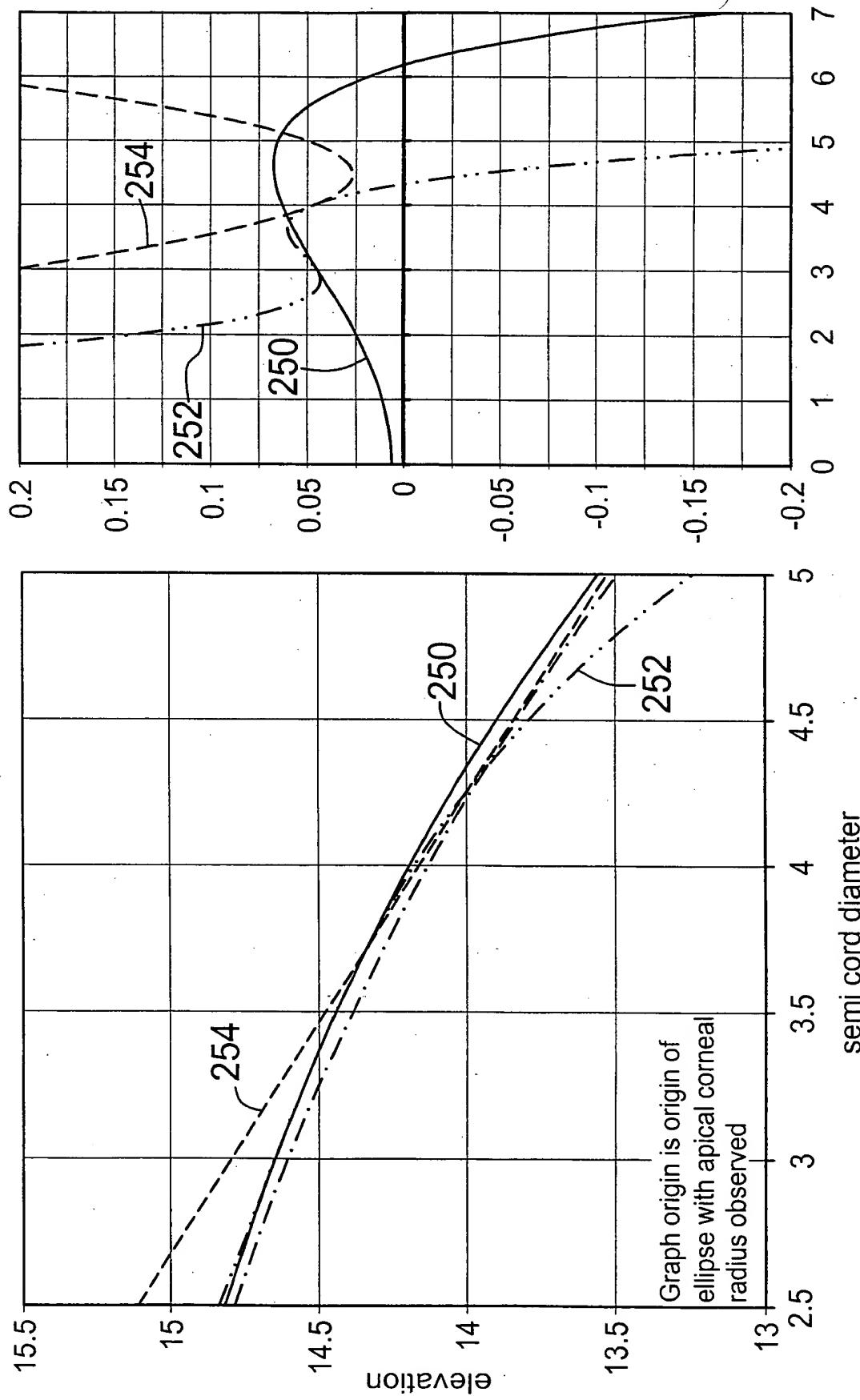
Appl. No. 09/894,351  
Amdt. Dated July 21, 2004  
Reply to Office action of April 21, 2004  
Replacement Sheet

FIG. 30B

BC				
J1	lens / cornea power (D) difference wanted	ellipticity of the cornea	HVID (mm)	
SW	-3.50	0.7		11
MAT	Actual power (D) difference between bc and apical cornea = -3.37	Desired edge lift (mm) when landed at full Diameter = 0.077		1.45
P	Recommended diameter for lentic = 7.735	Ab, the long axis of the ellipse creating the base curve edge (below)	FOR SPHERICAL FRONTS target edge thickness (below)	
Δ1	Recommended radius of curve for lentic = 9.295	0.40		0.18
Δ2	Origin for lentic curve is on y axis displaced from apex of front curve = 9.400	Af, the long axis of the ellipse creating the front curve edge (below)	SPHERICAL FRONTS- max thickness peripheral to J1 before lentic (in mm>Delta 2) see below	
A	Estimated elevation at J2 = 0.047	0.40		0.01
D	fixed (tear thickness)	base to front at which the transition from base ellipse to front ellipse is found (below)	Minimum thickness peripheral to J1 before lentic (in mm>Delta 1) see below	
SD	0.006	0.25		0.01



FIG. 31





Appl. No. 09/894,351  
Amtd. Dated July 21, 2004  
Reply to Office action of April 21, 2004  
Replacement Sheet

individual & cumulative volumes  
under lens

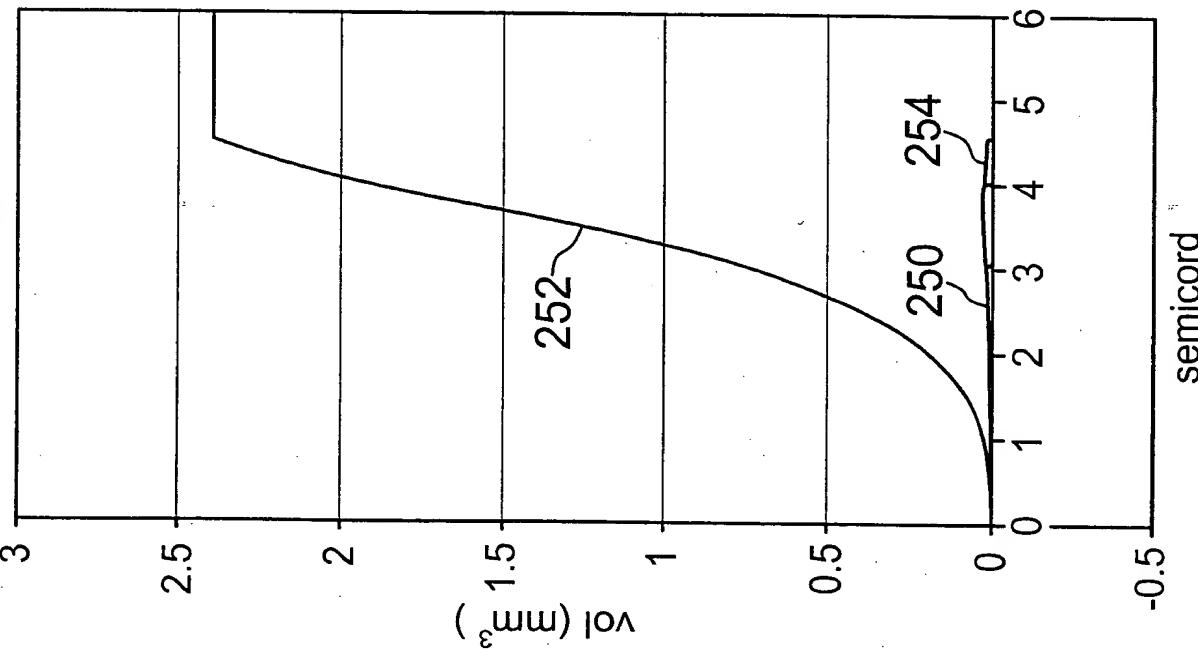


FIG. 32

individual & cumulative volumes  
under lens

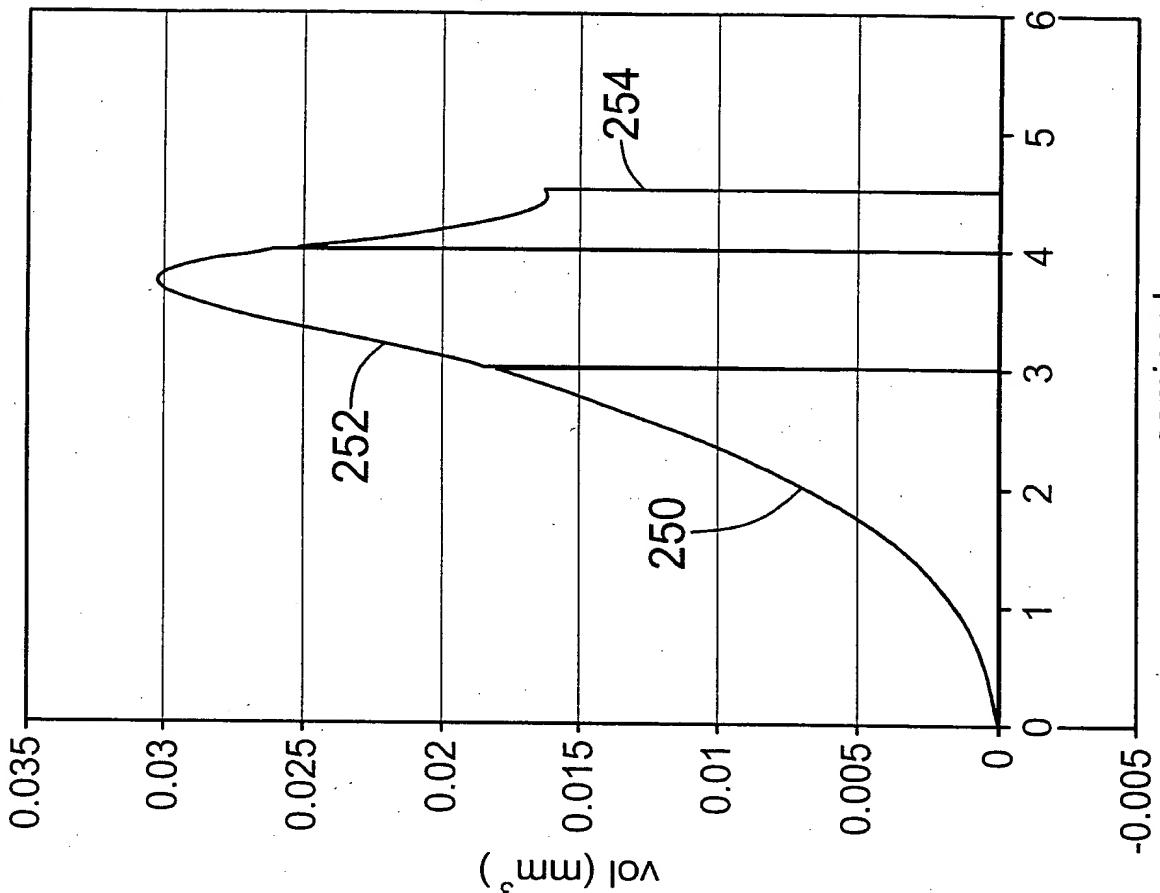
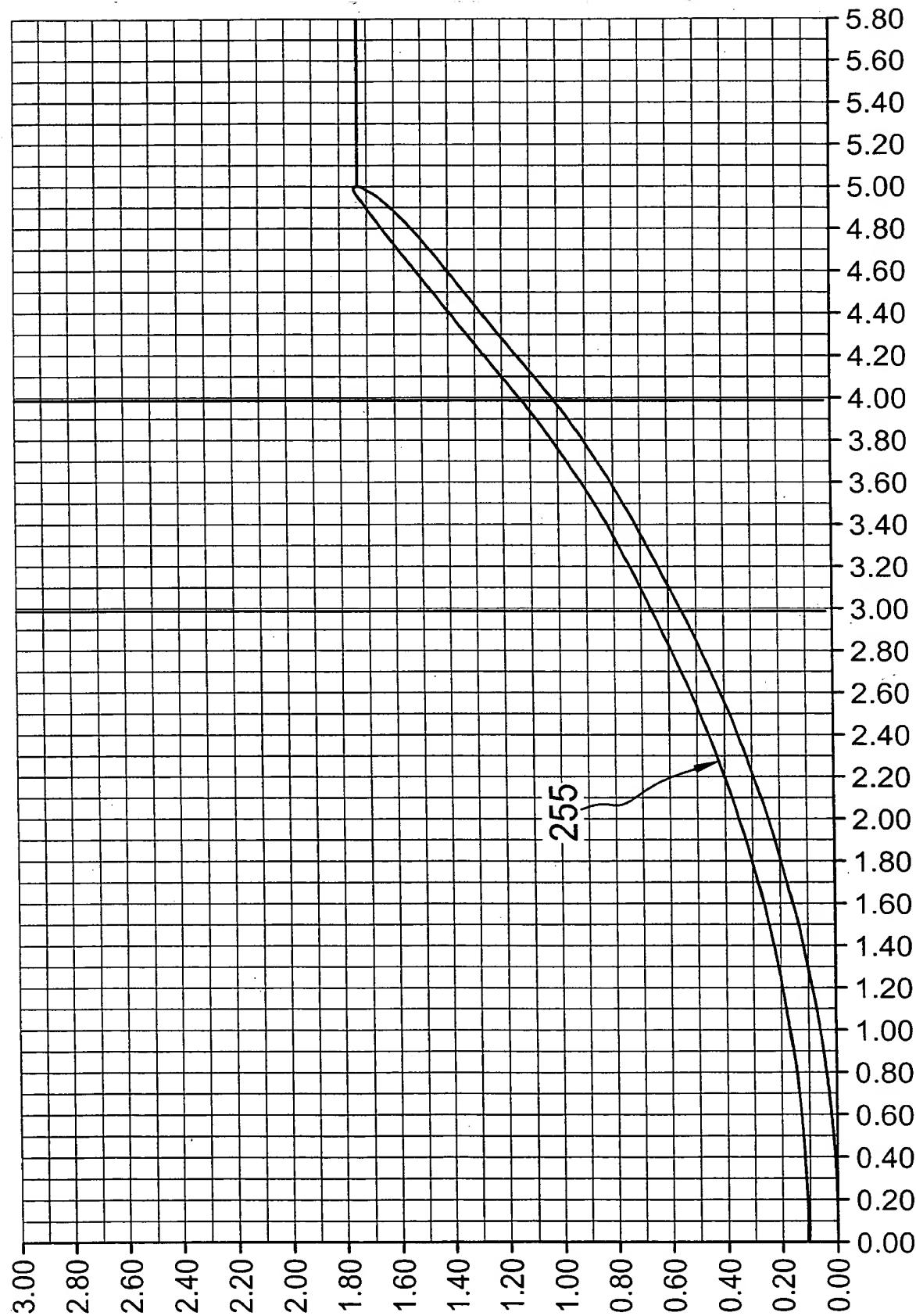


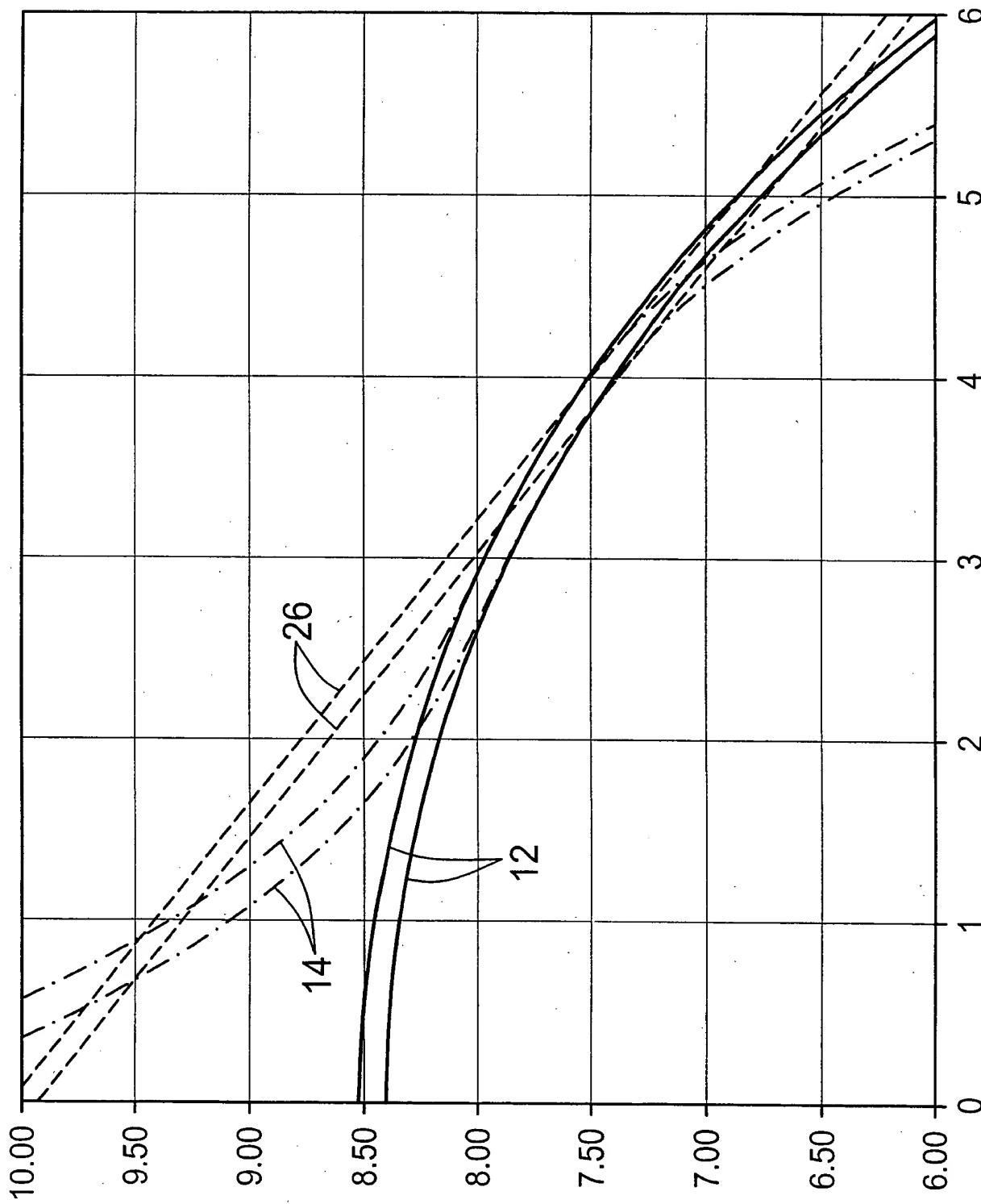
FIG. 33





Appl. No. 09/894,351  
Amtdt. Dated July 21, 2004  
Reply to Office action of April 21, 2004  
Replacement Sheet

FIG. 34





Appl. No. 09/894,351  
Amdt. Dated July 21, 2004  
Reply to Office action of April 21, 2004  
Replacement Sheet

FIG. 34

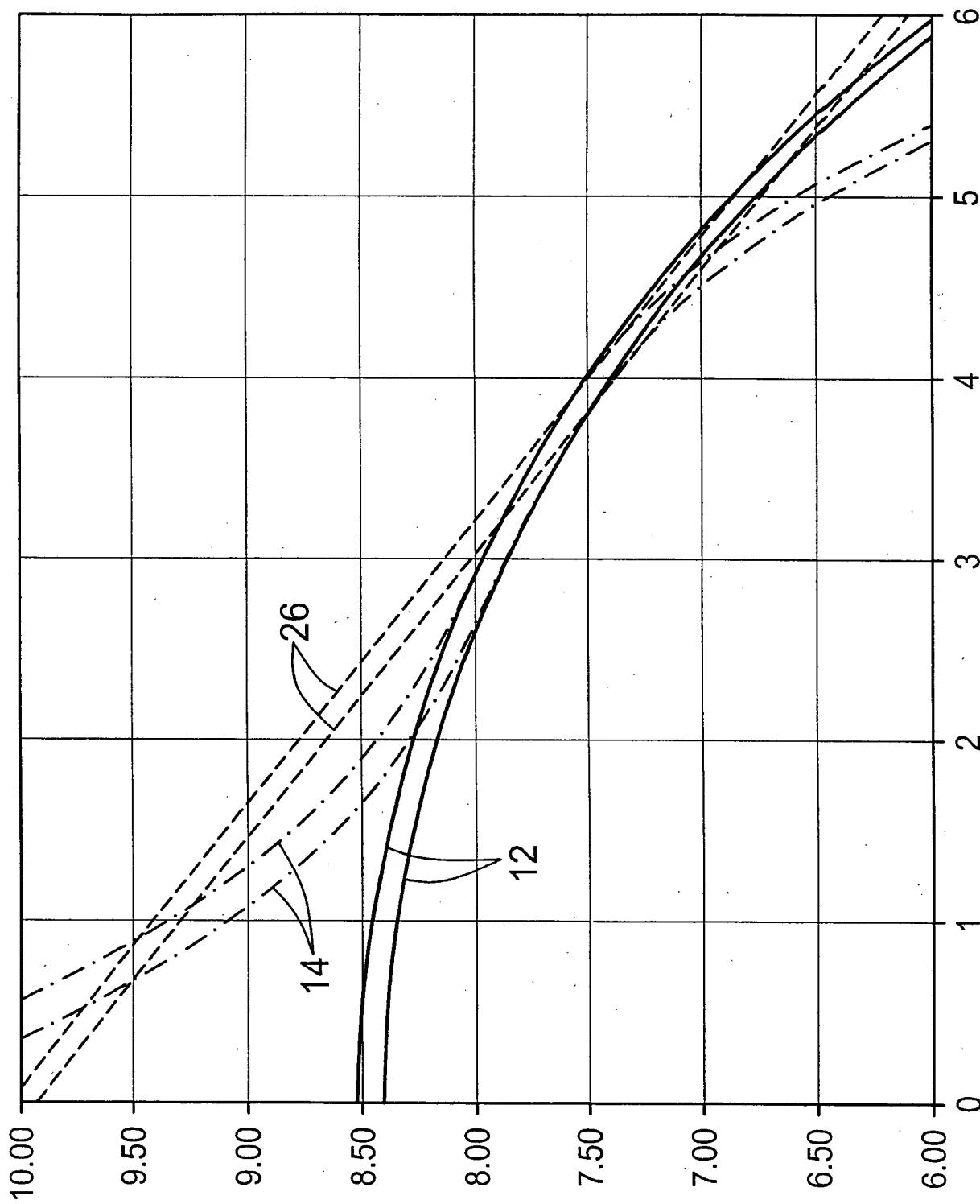




FIG. 35A

BC	selected bc (6.9-10.4/0.1) x (7.70-9.1/0.05)	<u>208</u>	7.50	Suggested Base Curve is 7.5
J1	Radial distance (OZ/2) from the lens center to 1st junction mm (1.0-5.9/0.1)	<u>210</u>	2.50	5B corneal apical radius (mm)
SW	Width of the S curve mm (.75,1)	1.50	EYE	7.8
MAT	Lens material (FP30, FP60, FP92, FP151, HDS, Other)	HDS	Ref. Index of material used = 1.449 If 'other' was selected input R1 in Cell H4	Volume between BC and cornea (uL) = 0.298
P	lens power desired (-1.00, -0.50, 0.00, 0.50, 0.75, 1.0, 1.25, 1.5, 2.0, 2.5)	0.50	Front Surface central radius = 7.49	Volume between S curve and cornea (uL) = 1.383
Δ1	Delta R (mm) translation of 1st junction radially from BC origin (0.08-0.2/0.02)	0.14	True center thickness (mm) = 0.149	Volume between pretouch Landing Zone and cornea (uL) = 0.491
Δ2	Delta R (mm) translation of 2nd junction radially from BC origin (0.1-0.22/0.02)	0.18	True offset between landing zones at J2 = 0.180	246 TOTAL VOLUME = 2.171(uL)
A	Angle of the landing zone (-25.5 to -50.0/.5)	<u>244</u> -35.00	Present lens height (mm) above cornea at diameter of tangential touch = 0.024	Diameter where LZ would make tangential touch = 9.08
D	selected lens diameter mm (8.0-12.9/0.1)	10.00	Diameter recommended from HVID = 10.9	Dia giving desired LZ lift = 10.52
SD	Selected depth of the S curve mm (.15-1.0/.05) x (0.3-0.65/.025) use next smaller than est.	0.636	Recommended depth (mm) S curve for desired correction @6u/D = 0.646 mm	Edge lift at selected diameter = 0.047



Appl. No. 09/894,351  
 Amdt. Dated July 21, 2004  
 Reply to Office action of April 21, 2004  
 Replacement Sheet

200

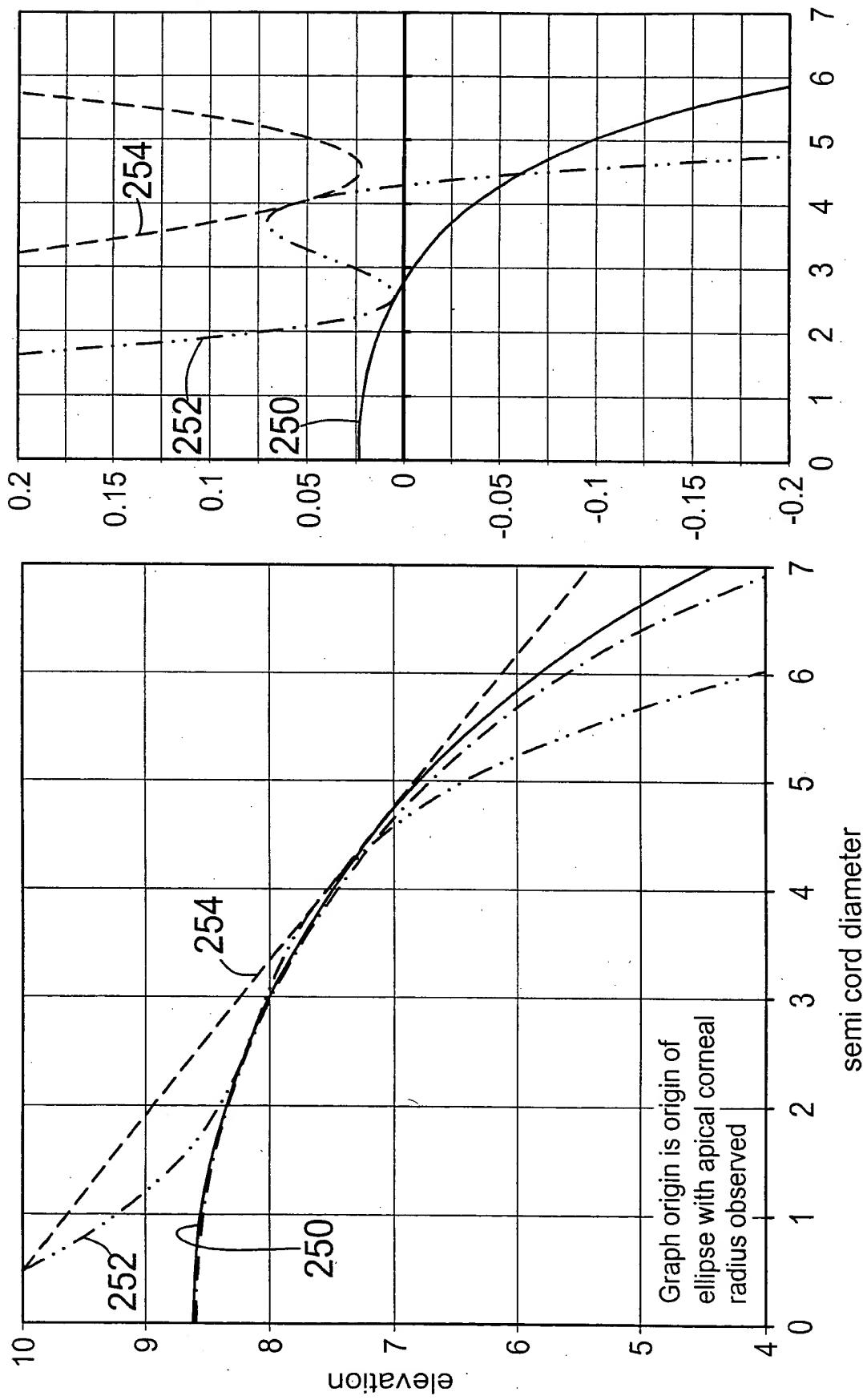
FIG. 35B

BC			
J1	lens / cornea power (D) difference wanted	ellipticity of the cornea	HVID (mm)
SW	2.00	0.3	11.9
MAT	Actual power (D) difference between bc and apical cornea = 1.73	Desired edge lift (mm) when landed at full Diameter = 0.062	1.45
P	Recommended diameter for lentic = 5.737	Ab, the long axis of the ellipse creating the base curve edge (below)	FOR SPHERICAL FRONTS target edge thickness (below)
Δ1	Recommended radius of curve for lentic = 8.482	0.40	0.18
Δ2	Origin for lentic curve is on y axis displaced from apex of front curve = 8.553	Af, the long axis of the ellipse creating the front curve edge (below)	SPHERICAL FRONTS- max thickness peripheral to J1 before lentic (in mm>Delta 2) see below
A	Estimated elevation at J2 = 0.056	0.40	0.01
D	fixed (tear thickness)	base to front at which the transition from base ellipse to front ellipse is found (below)	Minimum thickness peripheral to J1 before lentic (in mm>Delta 1) see below
SD	0.024	0.25	0.01



Appl. No. 09/894,351  
Amdt. Dated July 21, 2004  
Reply to Office action of April 21, 2004  
Replacement Sheet

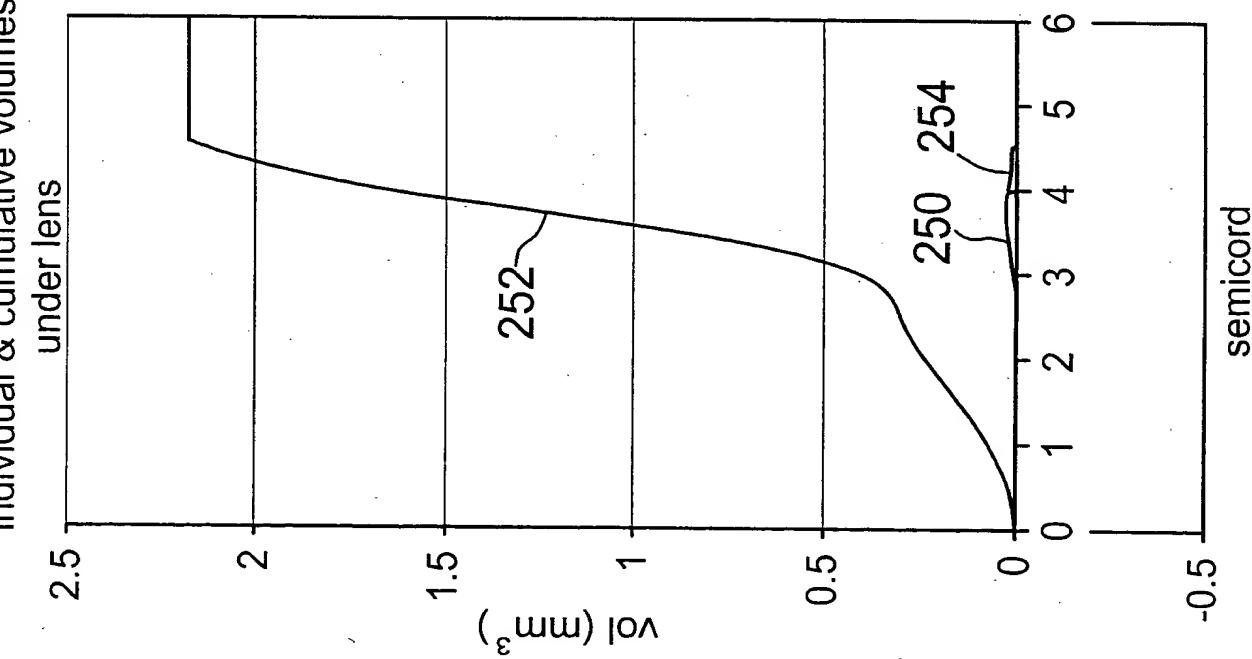
FIG. 36



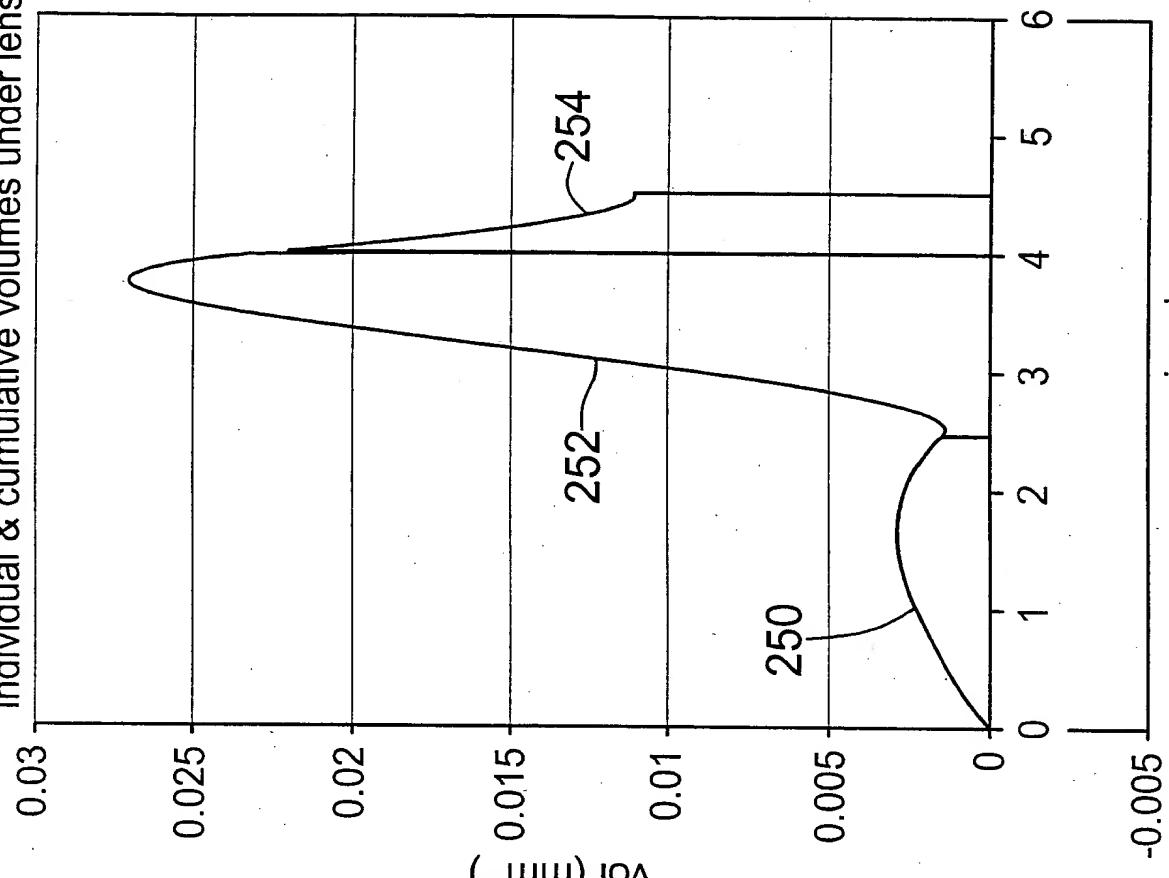


Appl. No. 09/894,351  
Amdt. Dated July 21, 2004  
Reply to Office action of April 21, 2004  
Replacement Sheet

individual & cumulative volumes under lens



individual & cumulative volumes under lens

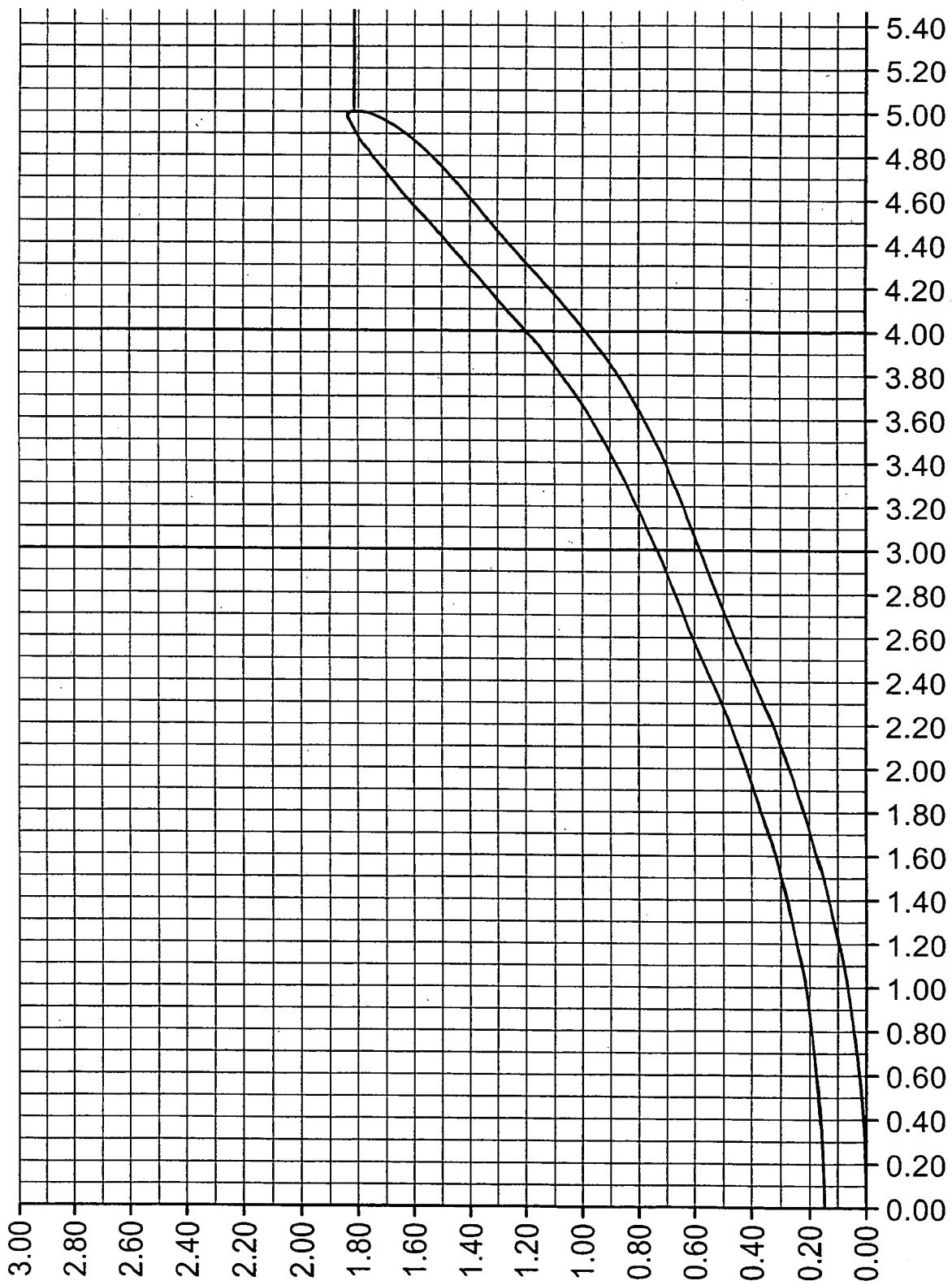


individual & cumulative volumes FIG. 37  
under lens



Appl. No. 09/894,351  
Arndt, Dated July 21, 2004  
Reply to Office action of April 21, 2004  
Replacement Sheet

FIG. 38





Appl. No. 09/894,351  
Amdt. Dated July 21, 2004  
Reply to Office action of April 21, 2004  
Replacement Sheet

FIG. 39

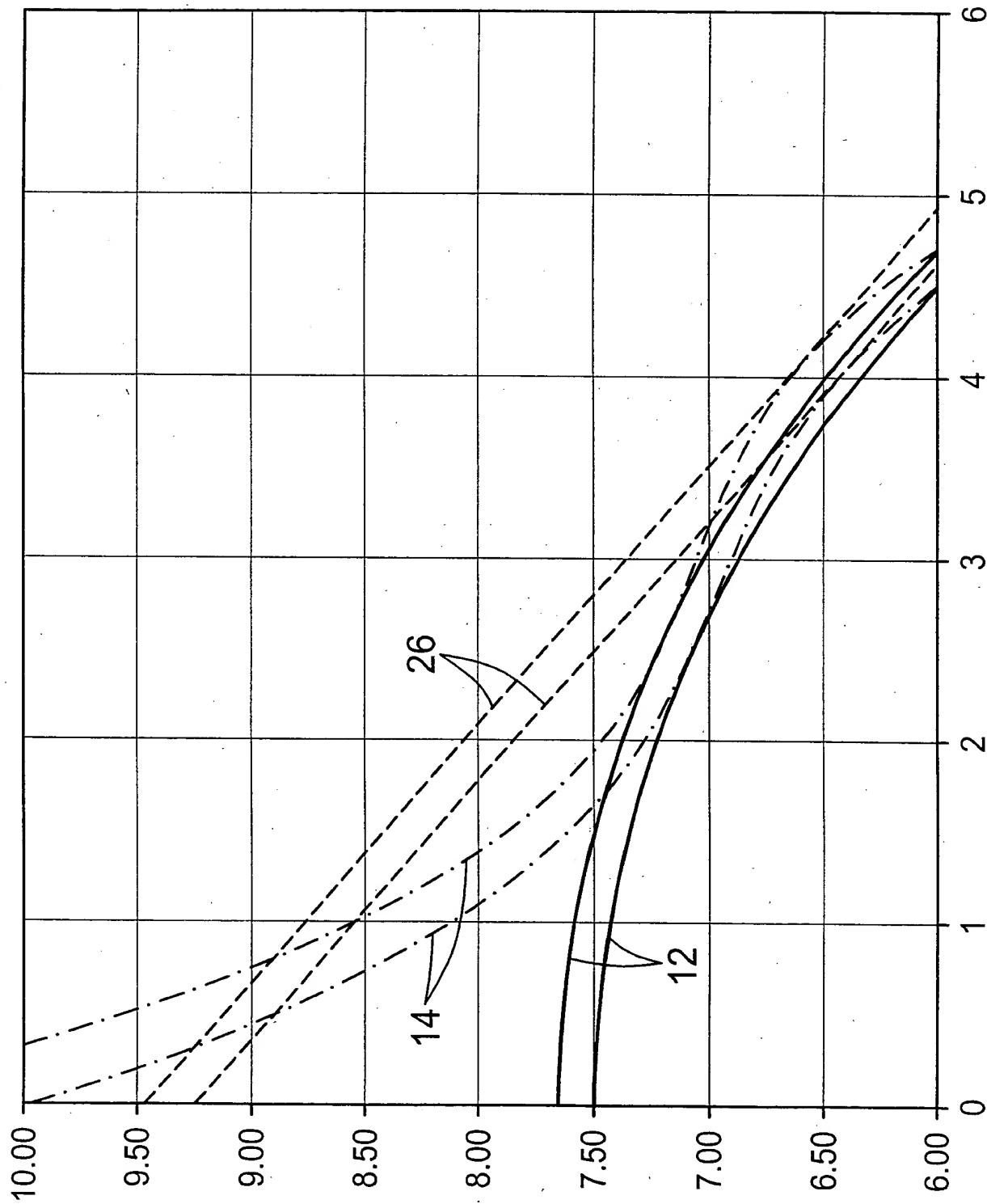




FIG. 40

Determine necessary spectacle correction, add up to 0.5 diopter overcorrection to extend duration of treatment.

350

Determined corneal curvature from keratometry or topography and add 0.2 mm per Diopter of needed correction to select lens base curve.

352

Measure horizontal visible iris diameter and select a lens diameter approximately 1 mm smaller than HVID.

354

Use topography information or trial fitting with various landing zones, to find the angle whose point of tangency is half way between the selected diameter and 8 mm (sum of standard central zone width (6 mm) and connector zone width 1 mm (2 mm considering both sides)).

356

Using fluorescene drops with trial lenses (of the selected diameter and base curve and angle and having various connector zone depths) estimate the rectangle depth that leaves the tangent point elevated above the cornea 6 microns per diopter of needed correction. Similar estimates can be made using topographical information.

358

Compare to model eye using software and confirm lens fit on patient. Review LZ elevation, edge lift, apical contact and centration.

360

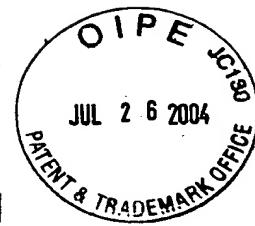


FIG. 41

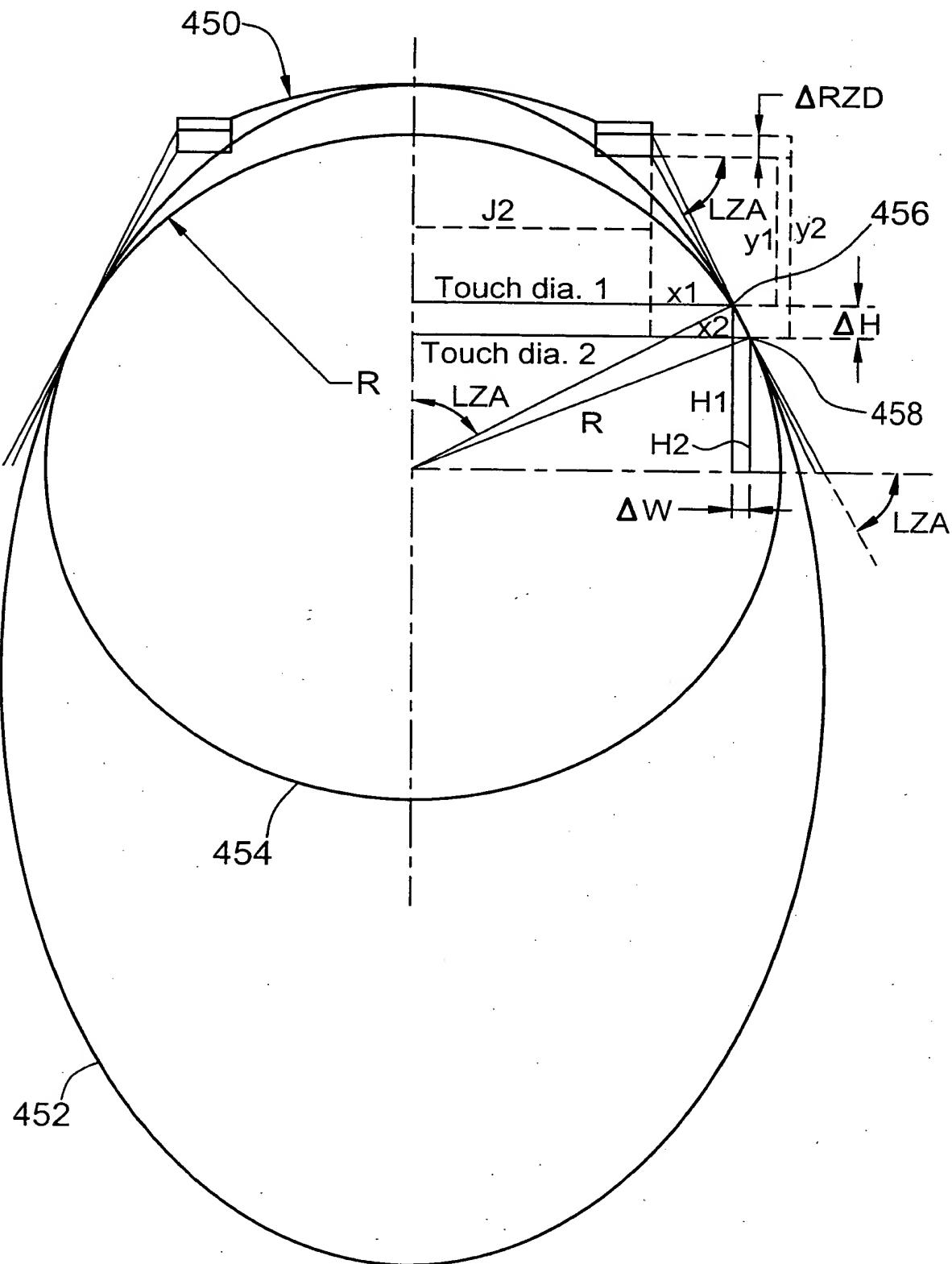




FIG. 42

